(19) World Intellectual Property Organization International Bureau





(43) International Publication Date 4 October 2001 (04.10.2001)

PCT

(10) International Publication Number WO 01/72778 A2

(51) International Patent Classification⁷: C07K 14/00

(21) International Application Number: PCT/US01/08853

(22) International Filing Date: 20 March 2001 (20.03.2001)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

60/192,920 29 March 2000 (29.03.2000) US

- (71) Applicant (for all designated States except US): BASF AKTIENGESELLSCHAFT [DE/DE]; 67056 Ludwigshafen, Rheinland-Pfalz (DE).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): BUMP, Nancy, J. [US/US]; 376 Andover Street, Lowell, MA 01852 (US). ARNOLD, Lee, D. [CA/US]; 216 Ruggles Street, Westborough, MA 01581 (US). DIXON, Richard, W. [US/US]; 6 Samuel Drive, North Grafton, MA 01536 (US). HOEFFKEN, Hans, Wolfgang [DE/DE]; Caro-Bosch-Strasse 38, 67056 Ludwigshafen (DE). ALLEN, Karen [US/US]; 80 East Concord Street, Boston, MA 02118 (US). BELLAMACINA, Cornelia [US/US]; 80 East Concord Street, Boston, MA 02118 (US).

- (74) Agents: ELMORE, Carolyn, S. et al.; Hamilton, Brook, Smith & Reynolds, P.C., Two Militia Drive, Lexington, MA 02421 (US).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published:

 without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.



⋖

(54) Title: METHOD OF IDENTIFYING INHIBITORS OF TIE-2

(57) Abstract: The present invention relates to polypeptides which comprise the ligand binding domain of Tie-2, crystalline forms of these polypeptides and the use of these crystalline forms to determine the three dimensional structure of the catalytic domain of Tie-2. The invention also relates to the use of the three dimensional structure of the Tie-2 catalytic domain both alone, or in complex with inhibitors, in methods of designing and/or identifying potential inhibitors of Tie-2 activity, for example, compounds which inhibit the binding of a native substrate to the Tie-2 catalytic domain.

-1-

METHOD OF IDENTIFYING INHIBITORS OF TIE-2

RELATED APPLICATION

5

10

15

20

25

30

This application claims the benefit of U.S. Provisional Application No. 60/192,920, filed on March 29, 2000. The entire teachings of the above application is incorporated herein by reference.

BACKGROUND OF THE INVENTION

Angiogenesis is a fundamental process by which new blood vessels are formed through sprouting, branching, proliferation, and tubule formation by endothelial cells from existing vasculature. In healthy humans, this neovascularization is under stringent control, normally occurring only during embryonic development, endometrial regulation, breast lactation and wound repair. However, in many pathological conditions, such as rheumatoid arthritis, solid tumors, Kaposi's sarcoma, blindness due to ocular neovascularization, psoriasis and atherosclerosis, disease progression is dependent upon persistent angiogenesis. The vasculature, which is the conduit for drug delivery, is one of the most accessible tissues in the body. Each endothelial cell of tumor vessels is estimated to support 100 to 1,000 neighboring cells, yet in the absence of an angiogenic stimulus endothelial cells typically divide only once every thousand days.

A number of polypeptide growth factors and their associated endothelial cell specific receptors have been discovered which are primarily responsible for the stimulation of endothelial cell growth, differentiation and the establishment of new vasculature. These growth factor receptors include the vascular endothelial growth factor receptors (VEGFR) Flk-1 (mouse), KDR/VEG-FR-2 (human), Flt-1/VEGFR-1, and Flt-4/VEGFR-3. Receptors which are responsible for neovascularization also include the receptor tyrosine kinases Tie-1 and Tie-2.

Due to its role in regulating new vascular development, Tie-2 is a potential target for therapies aimed at controlling diseases which depend upon persistent angiogenesis. The development of biochemical assays for Tie-2 has enabled drug

discovery to proceed along the pathways of identifying lead Tie-2 inhibitors by high-throughput screening of compound libraries and by testing compounds that mimic substrate structure; however, rational, structure-based design has not been possible up to this point because of the lack of accurate three-dimensional structural data for Tie-2 receptors.

SUMMARY OF THE INVENTION

5

10

15

20

25

30

The present invention relates to a polypeptide which comprises the catalytic domain of Tie-2, a crystalline form of this polypeptide and the use of structural information derived from the crystalline form of the polypeptide for designing and/or identifying potential inhibitors of the binding of one or more native ligands to the catalytic domain of Tie-2.

In one embodiment, the present invention relates to a polypeptide comprising the catalytic domain of TIE-2 and having the amino acid sequence set forth in SEQ ID NO: 2. In another embodiment, the invention relates to a crystalline form of this polypeptide or the polypeptide complexed with a ligand.

In another embodiment, the invention provides a method of determining the three dimensional structure of a crystalline polypeptide comprising the Tie-2 catalytic domain. In one embodiment, the method comprises the steps of (1) obtaining a crystal of the polypeptide comprising the catalytic domain of Tie-2; (2) obtaining x-ray diffraction data for said crystal; and (3) solving the crystal structure of said crystal. The method optionally comprises the additional step of obtaining the polypeptide, with the three dimensional structure to be determined, prior to obtaining the crystal of said peptide.

In another embodiment, the method comprises the steps of (1) obtaining a crystal of the polypeptide comprising the catalytic domain of Tie-2; (2) obtaining x-ray diffraction data for said crystal; and (3) solving the crystal structure of said crystal by using said x-ray diffraction data and the atomic coordinates for the Tie-2 catalytic domain of a second polypeptide. The method optionally comprises the additional step of obtaining the polypeptide, with the three dimensional structure to be determined, prior to obtaining the crystal of said peptide.

5

10

15

20

25

30

The invention further relates to a method for identifying a compound which inhibits the catalytic activity of Tie-2 by, for example, inhibiting the binding of natural substrates such as a tyrosyl polypeptide or protein or ATP, to the catalytic domain of Tie-2. Such a compound is referred to herein as a "Tie-2 inhibitor". The method comprises the steps of (1) using a three-dimensional structure of Tie-2 as defined by the atomic coordinates of the cataytic domain of Tie-2; (2) employing the three dimensional structure to design or select a potential inhibitor; and (3) assessing the ability of the selected compound to inhibit the catalytic activity of Tie-2. The method can also include the step of providing the compound designed or selected in step 2, for example, by synthesizing the compound or obtaining the compound from a compound library. In addition, the method can include the step of assessing the ability of the identified compound to bind to the catalytic domain of Tie-2 and/or assessing the ability of the identified compound to inhibit the binding of a natural ligand of Tie-2.

In another embodiment, the method for identifying a compound which inhibits the catalytic activity of Tie-2, comprises the step of determining the ability of one or more functional groups and/or moieties of the compound, when present in, or bound to, the Tie-2 catalytic domain, to interact with one or more subsites of the Tie-2 catalytic domain. Generally, the Tie-2 catalytic domain is defined by the conserved homologous sequences when compared to other known tyrosine kinases. If the compound is able to interact with a preselected number or set of subsites, or has a calculated interaction energy within a desired or preselected range, the compound is identified as a potential inhibitor of Tie-2.

The invention further provides a method of designing a compound which is a potential inhibitor of the catalytic activity of Tie-2. The method includes the steps of (1) identifying one or more functional groups capable of interacting with one or more subsites of the Tie-2 catalytic domain; and (2) identifying a scaffold which presents the functional group, or functional groups, identified in step 1 in a suitable orientation for interacting with one or more subsites of the Tie-2 catalytic domain. The compound which results from attachment of the identified functional groups or moieties to the identified scaffold is a potential inhibitor of Tie-2. The Tie-2 catalytic

domain is, generally, defined by the atomic coordinates of a polypeptide comprising the Tie-2 catalytic domain.

In yet another embodiment, the invention provides compounds which inhibit the catalytic activity of Tie-2 and which fit, or bind to, the Tie-2 catalytic domain. Such compounds typically comprise one or more functional groups which, when the compound is bound in the Tie-2 catalytic domain, interact with one or more subsites of the catalytic domain. Generally, the Tie-2 catalytic domain is defined by the conserved homologous sequence when compared to other known tyrosine kinases. In a particular embodiment, the Tie-2 inhibitor is a compound which is identified or designed by a method of the present invention.

The present invention further provides a method for treating a condition mediated by Tie-2 in a patient. The method comprises administering to the patient a therapeutically or prophylactically effective amount of a compound which inhibits the catalytic activity of Tie-2, such as a Tie-2 inhibitor of the invention, for example, a compound identified as a Tie-2 inhibitor or designed to inhibit Tie-2 by a method of the present invention.

The present invention provides several advantages. For example, the invention provides the first detailed three dimensional structures of the ligand binding domain of a Tie-2 protein. The methods described herein can be used to facilitate formation of Tie-2 crystals which diffract at high resolution. These structures enable the rational development of inhibitors of Tie-2 by permitting the design and/or identification of molecular structures having features which facilitate binding to the Tie-2 binding domain. The methods of use of the structures disclosed herein, thus, permit more rapid discovery of compounds which are potentially useful for the treatment of conditions which are mediated, at least in part, by Tie-2 activity.

BRIEF DESCRIPTION OF THE DRAWINGS

5

10

15

20

25

30

Fig. 1 presents the amino acid sequence of human Tie-2 (SEQ ID NO: 1).

Fig. 2 presents the amino acid sequence which includes the catalytic domain of human Tie-2 from amino acid 802 to amino acid 1124, and has a catalytically inactive point mutation at amino acid 964 (SEQ ID NO: 2).

Fig. 3A-3OO present the atomic coordinates for SEQ ID NO 2/inhibitor I complex.

Fig. 4A-4OO present the atomic coordinates for SEQ ID NO 2/inhibitor II complex.

Fig. 5A-5RR present the atomic coordinates for SEQ ID NO 2/inhibitor III complex.

Fig. 6A-6NN present the atomic coordinates for SEQ ID NO 2/inhibitor IV complex.

Fig. 7 shows the structure of a prototypical kinase, insulin receptor kinase.

Fig. 8 shows identifies regions of a pyrrolopyrimidine inhibitor (i.e., inhibitor I) which interact with the catalytic domain of Tie-2.

Fig. 9 shows a model of the catalytic domain of Tie-2 bound to inhibitor I. Subsites are shown in different colors.

15 DETAILED DESCRIPTION OF THE INVENTION

5

10

20

25

30

The present invention relates to the x-ray crystallographic study of polypeptides comprising the catalytic domain of Tie-2. The atomic coordinates which result from this study are of use in identifying compounds which fit in the catalytic domain and are, therefore, potential inhibitors of Tie-2. These Tie-2 inhibitors are of use in methods of treating a patient having a condition which is modulated by or dependent upon Tie-2 activity, for example, a condition dependent on persistant angiogenesis.

There are at least 400 enzymes identified as protein kinases. These enzymes catalyze the phosphorylation of target protein substrates. The phosphorylation is usually a transfer reaction of a phosphate group from ATP to the protein substrate. The specific structure in the target substrate to which the phosphate is transferred is a tyrosine, serine or threonine residue. Since these amino acid residues are the target structures for the phosphoryl transfer, these protein kinase enzymes are commonly referred to as tyrosine kinases or serine/threonine kinases.

The phosphorylation reactions, and counteracting phosphatase reactions, at the tyrosine, serine and threonine residues are involved in countless cellular processes that

5

10

15

20

25

30

underlie responses to diverse intracellular signals (typically mediated through cellular receptors), regulation of cellular functions, and activation or deactivation of cellular processes. A cascade of protein kinases often participate in intracellular signal transduction and are necessary for the realization of these cellular processes. Because of their ubiquity in these processes, the protein kinases can be found as an integral part of the plasma membrane or as cytoplasmic enzymes or localized in the nucleus, often as components of enzyme complexes. In many instances, these protein kinases are an essential element of enzyme and structural protein complexes that determine where and when a cellular process occurs within a cell.

Protein Tyrosine Kinases. Protein tyrosine kinases (PTKs) are enzymes which catalyse the phosphorylation of specific tyrosine residues in cellular proteins. This post-translational modification of these substrate proteins, often enzymes themselves, acts as a molecular switch regulating cell proliferation, activation or differentiation (for review, see Schlessinger and Ulrich, 1992, Neuron 9:383-391). Aberrant or excessive PTK activity has been observed in many disease states including benign and malignant proliferative disorders as well as diseases resulting from inappropriate activation of the immune system (e.g., autoimmune disorders), allograft rejection, and graft vs. host disease. In addition, endothelial-cell specific receptor PTKs such as KDR and Tie-2 mediate the angiogenic process, and are thus involved in supporting the progression of cancers and other diseases involving inappropriate vascularization (e.g., diabetic retinopathy, choroidal neovascularization due to age-related macular degeneration, psoriasis, rheumatoid arthritis, retinopathy of prematurity, infantile hemangiomas, psoriasis and atherosclerosis.

Tyrosine kinases can be of the receptor-type (having extracellular, transmembrane and intracellular domains) or the non-receptor type (being wholly intracellular).

Receptor Tyrosine Kinases (RTKs). The RTKs comprise a large family of transmembrane receptors with diverse biological activities. At present, at least nineteen (19) distinct RTK subfamilies have been identified. The receptor tyrosine kinase (RTK) family includes receptors that are crucial for the growth and differentiation of a variety of cell types (Yarden and Ullrich, Ann. Rev. Biochem.

5

10

15

20

25

30

57:433-478, 1988; Ullrich and Schlessinger, *Cell* 61:243-254, 1990). The intrinsic function of RTKs is activated upon ligand binding, which results in phosphorylation of the receptor and multiple cellular substrates, and subsequently in a variety of cellular responses (Ullrich & Schlessinger, 1990, *Cell* 61:203-212). Thus, receptor tyrosine kinase mediated signal transduction is initiated by extracellular interaction with a specific growth factor (ligand), typically followed by receptor dimerization, stimulation of the intrinsic protein tyrosine kinase activity and receptor transphosphorylation. Binding sites are thereby created for intracellular signal transduction molecules and lead to the formation of complexes with a spectrum of cytoplasmic signaling molecules that facilitate the appropriate cellular response. (e.g., cell division, differentiation, metabolic effects, changes in the extracellular microenvironment) see Schlessinger and Ullrich, 1992, *Neuron* 9:1-20.

Proteins with SH2 (src homology -2) or phosphotyrosine binding (PTB) domains bind activated tyrosine kinase receptors and their substrates with high affinity to propagate signals into cell. Both of the domains recognize phosphotyrosine. (Fantl et al., 1992, Cell 69:413-423; Songyang et al., 1994, Mol. Cell. Biol. 14:2777-2785; Songyang et al., 1993, Cell 72:767-778; and Koch et al., 1991, Science 252:668-678; Shoelson, Curr. Opin. Chem. Biol. (1997), 1(2), 227-234; Cowburn, Curr. Opin. Struct. Biol. (1997), 7(6), 835-838). Several intracellular substrate proteins that associate with receptor tyrosine kinases (RTKs) have been identified. They may be divided into two principal groups: (1) substrates which have a catalytic domain; and (2) substrates which lack such a domain but serve as adapters and associate with catalytically active molecules (Songyang et al., 1993, Cell 72:767-778). The specificity of the interactions between receptors or proteins and SH2 or PTB domains of their substrates is determined by the amino acid residues immediately surrounding the phosphorylated tyrosine residue. For example, differences in the binding affinities between SH2 domains and the amino acid sequences surrounding the phosphotyrosine residues on particular receptors correlate with the observed differences in their substrate phosphorylation profiles (Songyang et al., 1993, Cell 72:767-778). Observations suggest that the function of each receptor tyrosine kinase is determined not only by its pattern of expression and ligand availability but also by the array of

5

10

15

20

25

30

downstream signal transduction pathways that are activated by a particular receptor as well as the timing and duration of those stimuli. Thus, phosphorylation provides an important regulatory step which determines the selectivity of signaling pathways recruited by specific growth factor receptors, as well as differentiation factor receptors.

Several receptor tyrosine kinases such as FGFR-1, PDGFR, TIE-2 and c-Met, and growth factors that bind thereto, have been suggested to play a role in angiogenesis, although some may promote angiogenesis indirectly (Mustonen and Alitalo, *J. Cell Biol.* 129:895-898, 1995).

Tie-2 (TEK) is a member of a recently discovered family of endothelial cell specific receptor tyrosine kinases which is involved in critical angiogenic processes, such as vessel branching, sprouting, remodeling, maturation and stability. Tie-2 is the first mammalian receptor tyrosine kinase for which both agonist ligand(s) (e.g., Angiopoietin1 ("Ang1"), which stimulates receptor autophosphorylation and signal transduction), and antagonist ligand(s) (e.g., Angiopoietin2 ("Ang2")), have been identified. Knock-out and transgenic manipulation of the expression of Tie-2 and its ligands indicates tight spatial and temporal control of Tie-2 signaling is essential for the proper development of new vasculature. The current model suggests that stimulation of Tie-2 kinase by the Angl ligand is directly involved in the branching, sprouting and outgrowth of new vessels, and recruitment and interaction of periendothelial support cells important in maintaining vessel integrity and inducing quiescence. The absence of Ang1 stimulation of Tie-2 or the inhibition of Tie-2 autophosphorylation by Ang2, which is produced at high levels at sites of vascular regression, may cause a loss in vascular structure and matrix contacts resulting in endothelial cell death, especially in the absence of growth/survival stimuli. The situation is however more complex, since at least two additional Tie-2 ligands (Ang3 and Ang4) have recently been reported, and the capacity for heterooligomerization of the various agonistic and antagonistic angiopoietins, thereby modifying their activity, has been demonstrated. Targeting Tie-2 ligand-receptor interactions as an antiangiogenic therapeutic approach is thus less favored and a kinase inhibitory strategy preferred.

-9-

The soluble extracellular domain of Tie-2 ("ExTek") can act to disrupt the establishment of tumor vasculature in a breast tumor xenograft and lung metastasis models and in tumor-cell mediated ocular neovasculatization. By adenoviral infection, the *in vivo* production of mg/ml levels ExTek in rodents may be achieved for 7-10 days with no adverse side effects. These results suggest that disruption of Tie-2 signaling pathways in normal healthy animals may be well tolerated. These Tie-2 inhibitory responses to ExTek may be a consequence of sequestration of ligand(s) and/or generation of a nonproductive heterodimer with full-length Tie-2.

5

10

15

20

25

30

Recently, significant upregulation of Tie-2 expression has been found within the vascular synovial pannus of arthritic joints of humans, consistent with a role in the inappropriate neovascularization. This finding suggests that Tie-2 plays a role in the progression of rheumatoid arthritis. Point mutations producing constitutively activated forms of Tie-2 have been identified in association with human venous malformation disorders. Tie-2 inhibitors are, therefore, useful in treating such disorders, and in other situations of inappropriate neovascularization.

The Examples herein describe the preparation and crystallization of polypeptides comprising the catalytic domain of human Tie-2. As used herein, the term "catalytic domain" refers to a specific module common to all kinases which bind ATP, such as the tyrosyl binding site, the site where ATP binds including the metal-ion binding region, and the site where the phosphoryl transfer occurs. For Tie-2, the catalytic domain is defined by amino acid residues from about residue 828 to about residue 985 of SEQ ID NO: 1, with residues 828-840, 853-855, 872, 873, 876, 879, 880, 885-888, 900, 902-909, 912, 954, 955, 960, 964, 968-971, and 980-985 included in the catalytic domain.

The amino acid sequences of native human Tie-2 (SEQ ID NO: 1) is taken as defined in SWISS-PROT (Ziegler, et al. *Oncogene*, 8:663 (1993)). As described in the Examples, certain of these crystals were examined by x-ray crystallography and atomic coordinates for the peptide were obtained. In certain cases, the polypeptide was unligated, that is, not complexed with a ligand. In other cases, the polypeptide was complexed with a ligand and the atomic coordinates of the ligand bound to the Tie-2 catalytic domain were also obtained.

5

10

15

20

25

30

Tie-2 is subject to autophosphorylation and transphosphorylation by other proteins. Phosphorylation state is a particularly important posttranslational modification to consider. A wild-type construct (i.e., without the D964N mutation) having residues 802-1124 of SEQ ID NO 1 was isolated from an expression system as a singly- or a multiply-phosphorylated species. One singly-phosphorylated species has its phosphate on either Y897 or Y899. In multiply phosphorylated species, phosphorylation can be on combinations of many Y residues on the protein. A diphosphorylated species crystallized in the space group P2(1)2(1)2(1) with the unit cell dimensions of a = 54.320 Å, b = 75.872 Å, c = 78.143 Å, and $\alpha = \beta = \gamma = 90.0^{\circ}$. The term "space group" is a term of art which refers to the collection of symmetry elements of the unit cell of a crystal. Other phosphorylation sites are described in Jones, N., *et al.*, *J. Biol. Chem.* (1999), *274*(43):30896.

A catalytically inactive mutant of human Tie-2 (SEQ ID NO 2) was also crystallized. The catalytically inactive mutant had the same sequence as residues 802 to 1124 of human Tie-2 except that residue 964 which is aspartic acid in wild type human Tie-2 was replaced with asparagine. This substitution rendered the mutant catalytically inactive. SEQ ID NO 2 crystallized in the space group C222(1) which had the unit cell dimensions a = 75.195 Å, b = 116.287 Å, c = 95.060 Å, and $\alpha = \beta = \gamma = 90.0^{\circ}$

The atomic coordinates for four crystals of Tie-2/ligand complexes examined by x-ray crystallography are presented in Figs. 3A-3OO, 4A-4OO, 5A-5RR and 6A-6NN. The term "atomic coordinates" (or "structural coordinates") refers to mathematical coordinates derived from mathematical equations related to the patterns obtained on diffraction of x-rays by atoms (scattering centers) of a crystalline polypeptide comprising a Tie-2 catalytic domain molecule. The diffraction data are used to calculate an electron density map of the repeating unit of the crystal. The electron density maps are used to establish the positions of the individual atoms within the unit cell of the crystal. Atomic coordinates can be transformed as is known in the art to different coordinate systems without affecting the relative positions of the atoms.

In particular, four high resolution crystal structures were obtained for SEQ ID NO 2) complexed with one of four different inhibitors shown below:

5

Inhibitor I

10

Inhibitor II

WO 01/72778 PCT/US01/08853 -12-

Inhibitor III

5

10

Inhibitor IV

The results of the x-ray crystal structure determination for SEQ ID NO 2, the catalytic domain of human Tie-2, showed the following features:

The overall structure adopted a recognizable kinase fold with an N-terminal lobe and a somewhat larger C-terminal lobe. ATP binding was at the interface of the two lobes with inhibitors also binding in this region. The major secondary structural elements of the N-terminal lobe were a five strand beta sheet and a long alpha helix. The C-terminal lobe was primarily a bundle of alpha helices with a short, two-strand beta sheet near the interface with the N-terminal lobe. Fig. 7 shows a prototypical receptor tyrosine kinase, insulin receptor kinase which highlights the structural features associated with known kinases. The structure of the catalytic domain of Tie-2, shown in Fig. 9 has similar features to this

5

10

15

20

25

30

The hinge region connects the N-terminal and C-terminal lobes. The portion of the hinge which forms part of the ATP/inhibitor binding region presents several hydrogen bonding partners. The carbonyl oxygen atoms of E903, A905 and P906 and the backbone amide protons of A905, H907 and G908 were presented into the pocket. The sidechains of L900, I902, Y904 and A905 helped to define the size, shape and nature of the binding pocket.

The purine core binding region was the region where the N-terminal and C-terminal lobes of the protein cooperate to form a flat, predominantly hydrophobic binding region which is the traditional location for the purine ring of ATP in other kinase structures. The residues which contribute to this region included: I830, A853, V838, I886, L971 and A981. Sidechains of residues in the hinge region, I902, Y904 and A905 also contributed hydrophobic character to this region. The carbonyl oxygen of I830 and the amide proton of V838 also presented an interaction site within this region.

By analogy to known kinase structures, the ribose ring of ATP would traditionally occupy an area between G831 in the N-terminal lobe and N909 in the C-terminal lobe called the extended sugar pocket. The backbone amide protons of G831, E832 and N909, the carbonyl oxygen of R968 and the sidechains of E832, N909 and D912 presented hydrogen bond partners.

By analogy to known kinase structures, the γ -phosphate of ATP would occupy an area around the sidechains of residues D964 (N964 in the catalytically inactive mutant, SEQ ID NO 2). The sidechain of R968 also contributes to this

WO 01/72778 PCT/US01/08853 -14-

5

10

15

20

25

30

region. The predominant available interaction type was hydrogen bonding, with quite complex coordination possible.

The nucleotide binding loop, or glycine-rich loop, was a flap like loop in the N-terminal lobe which covered the front portion of the ATP binding region. Residues not already described in other binding areas include D828, V829, G833, N834, F835, G836, Q837, L839, and K840. Residues I830, G831, E832 and V838 were also part of this structural element, but have already been included in other binding regions described above. This loop is usually considered to be very flexible and is capable of altering the shape and size of the ATP binding region. Carbonyl oxygen atoms, N834 sidechain atoms and backbone amide protons of G833, N834 and F835 were potentially available for hydrogen bonding. The sidechain atoms of D828 and K840 were available for ionic/hydrogen bonding interactions. The sidechain atoms of V829, I830, F835 and L839 can contribute to hydrophobic interactions.

The early activation loop was a long flexible loop containing at least one residue, the phosphorylation of which, is generally believed to determine the activation state of the protein. The loop begins in the ATP binding site and ends in the C-terminal lobe in the area which most likely corresponds to substrate binding. Residues F983, G984, and L985 form part of the ATP binding site and were also on the N-terminal side of the activation loop. The carboxyl oxygen and amide protons of F983 and G984 and the amide proton of L985 were available for hydrogen bonding and the sidechains of F983 and L985 can contribute to hydrophobic interactions.

K855, by homology to known kinases, is part of the catalytic mechanism of the kinase. The amino group can participate in ionic or hydrogen bond interactions and the methylene groups can contribute to hydrophobic interactions. The sidechain is very mobile.

The distal hydrophobic pocket is is characterized by a buried hydrophobic cavity. This portion of the ATP binding region is not occupied by any ATP atoms in known kinase structures. Residues which contribute to this pocket include L873, L876, L879, I885, L888, Y954, L955, F960 and I980. I886, A981 and F983 from regions already described also contribute hydrophobic interactions to this region. In addition, there was a number of backbone hydrogen bond partners available in this

WO 01/72778 PCT/US01/08853 -15-

area. These partners included the carbonyl oxygen atoms of I886, L879, and G880. With the apparent disruption of the alpha-C helix, carbonyl oxygen atoms of E872, L873 and L876 may also be available. The backbone amide proton of residues, I886 and L888 were also available in this region.

5

Several residues contributed to the ATP/inhibitor binding site but do not seem to be part of definable subregion. These residues are I854, E872, N887, I970 and I980. E872 often forms an ionic interaction with the catalytic lysine in known kinase structures. N887 may contribute to the distal hydrophobic pocket. The sidechains of I854, and I970 face away from the ATP pocket, however carbonyl oxygen atoms from these residues as well as I980 were presented towards the binding region.

The structure of the SEQ ID NO 2/inhibitor I complex had the following features:

Final resolution of the structure was 2.8 Å in space group C2221, with final coordinates determined for backbone atoms of residues 818-857, 864-995, 1001-1116.

15

10

The pyrrolopyrimidine ring of inhibitor I formed hydrogen bonds to residues in the hinge region and interacts with purine core region. The core of the inhibitor presented a hydrogen bond donor in the form of the amino proton of the 4-NH₂ substituent to the carbonyl oxygen of E903. Atom N3 of the pyrimidine ring accepted a hydrogen bond from the backbone N-H of A905. The ring system of the core presented a planar face to residues of both the C-terminal and N-terminal lobes. The residues in these areas present a hydrophobic surface which "sandwiches" the planar core of the inhibitor. Residues involved in this hydrophobic sandwich region include I830, V838, I86, I902 and L971. Atoms N1 and N7 of the inhibitor core faced the solvent exposed mouth of the binding pocket. Atom C6 of the inhibitor faced the long axis of the nucleotide binding loop of the N-terminal lobe of the protein.

25

20

The N7 cyclopentane ring of Inhibitor I was directed towards solvent but was still within the protein cavity. This region was described above as the extended sugar pocket. This region was characterized by hydrophobic interactions with primarily I830 and L971. Methylene groups of E832 may also contribute in this fashion.

30

The phenyl ring attached to C5 of the pyrrolopyrimidine ring was in a predominantly hydrophobic area, generated by residues from the purine core region,

the distal hydrophobic pocket and methylene groups from the catalytic lysine, K855. The hydrophobic contacts were with residues V838, I886, I902, L971 and A981. Lysine 855 was highly mobile, so it is also possible that the chlorine atom meta to the pyrrolopyrimidine ring was receiving a hydrogen bond.

-16-

The sulfonamide linker made a clear hydrogen bond with an amide proton of D982 and may also make a hydrogen bond to the amide proton of F983.

The terminal phenyl ring was located in the distal hydrophobic pocket. Primary contacts were with L876, I886, L888 and F983.

5

10

15

20

25

30

The structure of the SEQ ID NO 2/inhibitor II, SEQ ID NO 2/inhibitor III and SEQ ID NO 2/inhibitor IV complexes had the following features:

Residues 818-857, 864-995, 1001-1116 have been modeled into the solved structure. A space group P42212 was observed. The overall fold is still a standard kinase catalytic domain fold and the binding regions described above for SEQ ID NO 2/inhibitor I still pertain.

The pyrrolopyrimidine core, B-ring, linker and C-ring of inhibitor II in the SEQ ID NO 2/inhibitor II complex was bound the same way as inhibitor I. In addition, the N-7 cyclohexyl N-methyl piperazinyl group occupied the extended sugar pocket and made a strong ionic interaction with D912.

The pyrrolopyrimidine of inhibitor III binds was bound the same way in the SEQ ID NO 2/inhibitor III complex as inhibitor I. The N-7 cyclohexyl N-methy piperazinyl group occupied the extended sugar pocket and made a strong ionic interaction with D912 as in the SEQ ID NO 2/inhibitor II complex. The B-ring was bound in a similar fashion to inhibitor I, however, the hydrogen bond between halogens, fluorine in this case, and K855 was more clear. The sulfonyl oxygens of the sulfonamide linker made two clear hydrogen bonds to backbone amide protons of D983 and F983. The C-ring occupied the distal hydrophobic pocket with main interactions coming from L876, I886, L888, L900, I902 and F983.

The pyrrolopyrimidine core of inhibitor IV in the SEQ ID NO 2/inhibitor IV complex was bound the same way as inhibitor I. The N-7 cyclohexyl N-methyl piperazinyl group occupies the extended sugar pocket and makes a strong ionic interaction with D912 as in SEQ ID NO 2/inhibitor II. The B-ring binds in a similar

WO 01/72778 PCT/US01/08853 -17-

fashion to inhibitor I, however there is no halogen atom to act as a potential hydrogen bond partner in inhibitor IV. The oxygen atom of the linker accepted a hydrogen bond from the catalytic lysine, K855. The C-ring of inhibitor IV occupied the distal hydrophobic pocket with main interactions coming from L876, I886, I902 and F983.

5

10

15

20

25

Analysis of the three dimensional structure of the Tie-2 catalytic domain has indicated the presence of a number of subsites, each of which includes molecular functional groups capable of interacting with complementary moieties of an inhibitor. Subsites 1 through 9 of the Tie-2 catalytic domain are defined below. A summary of the properties of the chemical moieties present at each subsite is given below. Subsites are characterized below according to the properties of chemical moieties with which they are complementary, or with which they can interact. Such moieties can include hydrogen bond acceptors, such as hydroxyl, amino, ether, thioether, carboxyl, P=O, and carbonyl groups, halogen atoms, such as fluorine, chlorine, bromine and iodine atoms; and other groups including a heteroatom having at least one lone pair of electrons, such as groups containing trivalent phosphorous, di- and tetravalent sulfur, oxygen and nitrogen atoms; hydrogen bond donors, such as hydroxyl, thiol, an amide proton, amine protons, carboxylic acid groups and any of the groups listed under hydrogen atom acceptors to which a hydrogen atom is bonded; hydrophobic groups, such as linear, branched or cyclic alkyl, ether or thioalkyl groups; linear, branched or cyclic alkenyl groups; linear, branched or cyclic alkynyl groups; aryl groups, such as mono- and polycyclic aromatic hydrocarbyl groups and mono- and polycyclic heterocyclic or heteroaryl groups; positively charged groups, such as primary, secondary, tertiary and quaternary ammonium groups, imidazolium and other protonated heteroalkyl and heteroaryl moieties, substituted and unsubstituted guanidinium groups, sulfonium groups and phosphonium groups; and negatively charged groups, such as carboxylate, phenolate, thiolate, sulfonamide, sulfamate, boronate, vanadate, sulfonate, sulfinate, phosphinate, tetrazolate and other heteroaryl anions, heterocyclic N-oxides, and phosphonate groups. A given chemical moiety can contain one or more of these groups.

30

Subsite 1: Hinge Region

Hydrogen Acceptors: The the backbone carbonyl oxygen of residues E903, A905 and P906 present proton acceptors.

Hydrogen Donors: The backbone amide protons of residues A905, H907 and G908

5 present proton donors.

Hydrophobic Groups: The sidechains of L900, I902, Y904 and A905 present hydrophobic groups.

Subsite 2: The Purine Core Binding Region

Hydrophobic Groups: Residues I830, A853, V838, I886, L971, A981 and the sidechains of residues I902, Y904, and A905 present hydrophobic groups.
 Hydrogen Acceptors: The carbonyl oxygen of I830 presents a proton acceptor.
 Hydrogen Donors: The amide proton of V838 presents a proton donor.

15 Subsite 3: The Extended Sugar Pocket

Hydrogen Acceptors: The backbone carbonyl oxygen of R968 and the sidechain carbonyl oxygen of E832, N909 and D912 present proton acceptors.

Hydrogen Donors: The backbone amide protons of G831, E832 and N909 present proton donors.

20

Subsite 4: The Extended γ-Phosphate Region

Hydrogen Bonding Groups: Residues D964 (N964 in the catalytically inactive mutant), N969 and D982 present both proton donor and proton acceptor groups.

25 Subsite 5: The Nucleotide binding Loop

Hydrogen Acceptors: The carbonyl oxygen of the sidechain of residue N834 presents a proton acceptor.

Hydrogen Donors: The backbone amide protons of residues G833, N834 and F835 present proton donors.

Positively Charged Group: The sidechain of K840 presents a positively charged site.

Negatively Charged Group: The sidechain of D828 presents a negatively charged site.

Hydrophobic Groups: The sidechains of V829, I830, F835 and L839 present hydrophobic groups.

Subsite 6: The Early Activation Loop

5 Hydrogen Acceptors: The backbone carbonyl oxygens of residues F983 and G984 presents a proton acceptor.

Hydrogen Donors: The backbone amide protons of residues F983, G984 and L985 present proton donors.

Hydrophobic Groups: The sidechains of F983 and L985 present hydrophobic groups.

10

Subsite 7: The Catalytic Lysine

Positively Charged Group: The sidechain of K855 presents a positively charged site. Hydrophobic Group: The methylene groups of the sidechain of K855 presents a hydrophobic group.

15

Subsite 8: The Distal Hydrophobic Pocket

Hydrophobic Groups: Residues L873, L876, L879, I885, L888, Y954, L955, F960, I980, I886, A981 and F983 present hydrophobic groups.

Hydrogen Acceptors: The backbone carbonyl oxygens of residues I886, L879, G880,

E872, L873 and L876 present proton acceptors.

Hydrogen Donors: The backbone amide protons of residues I886 and L888 present proton donors.

Subsite 9: Miscellaneous interaction sites which contribute to the ATP binding site.

Hydrogen Acceptors: The backbone carbonyl oxygens of residues I854, I970 and I980 present proton acceptors in the ATP binding region.

Negatively Charged Groups: E872 presents a negatively charged group which often forms an ionic bond with the catalytic lysine residue K855.

30

25

Fig. 9 provides a model of the catalytic domain of Tie-2 bound to inhibitor I. Subsites 1-9 of the catalytic domain are each depicted in a different color as follows:

5

10

15

20

25

30

the hinge region (dark blue), the purine core (light blue), the extended sugar pocket (light purple), the γ-phosphate region (dark yellow), the nucleotide binding loop (red), the early activation loop (dark green), the catalytic lysine (light green), the distal hydrophobic pocket (dark purple), and miscellaneous interaction sites (brown). The inhibitor is depicted in light yellow.

-20-

In one embodiment, the present invention provides polypeptides comprising the catalytic domain of Tie-2, crystalline forms of these polypeptides, optionally complexed with a ligand, and the three dimensional structure of the polypeptides, including the three dimensional structure of the Tie-2 catalytic domain. In general, these three dimensional structures are defined by atomic coordinates derived from x-ray crystallographic studies of the polypeptides. The catalytic domain can be unphosphorylated, monophosphorylated or multiply phosphorylated. Phosphorylization typically occurs at tyrosine residues. One monophosphorylated species has a phosphate group on Y897 or Y899.

The polypeptides can include the catalytic domain of Tie-2 from any species, such as a yeast or other unicellular organism, an invertebrate or a vertebrate. Preferably, the polypeptide includes the catalytic domain of a mammalian Tie-2, such as murine Tie-2. More preferably, the polypeptide includes the catalytic domain of human Tie-2. The polypeptides of the invention also includes polypeptides comprising single nucleotide polymorphisms of the catalytic domain of human Tie-2 or murine Tie-2. In one embodiment, the polypeptides of the invention, and crystalline forms thereof, include a sequence which has at least 80% identity to the catalytic domain of human Tie-2 or murine Tie-2.

To determine the percent identity of two amino acid sequences, the sequences are aligned for optimal comparison purposes (e.g., gaps can be introduced in one or both of a first and a second amino acid or nucleic acid sequence for optimal alignment, and non-homologous (dissimilar) sequences can be disregarded for comparison purposes). In a preferred embodiment, the length of a first sequence aligned for comparison purposes is at least 30%, preferably at least 40%, more preferably at least 50%, even more preferably at least 60%, and even more preferably at least 70%, 80%, or 90% of the length of the second sequence. The amino acid

WO 01/72778 PCT/US01/08853 -21-

5

10

15

20

25

30

residues at corresponding amino acid positions are then compared. When a position in the first sequence is occupied by the same amino acid residue as the corresponding position in the second sequence, then the molecules are identical at that position. The percent identity between the two sequences is a function of the number of identical positions shared by the sequences, taking into account the number of gaps, and the length of each gap, which need to be introduced for optimal alignment of the two sequences.

The invention also encompasses polypeptides having a lower degree of identity but having sufficient homology so as to perform one or more of the same functions performed by Tie-2 polypeptides described herein by amino acid sequence. Homology for a polypeptide is determined by conservative amino acid substitution. Such substitutions are those that substitute a given amino acid in a polypeptide by another amino acid of like characteristics. Conservative substitutions are likely to be phenotypically silent. Typically seen as conservative substitutions are the replacements, one for another, for example, among the aliphatic amino acids Ala, Val, Leu, and Ile; interchange of the hydroxyl residues Ser and Thr, exchange of the acidic residues Asp and Glu, substitution between the amide residues Asn and Gln, exchange of the basic residues Lys and Arg or replacements among the aromatic residues Phe, Tyr and Trp. Guidance concerning which amino acid changes are likely to be phenotypically silent is found in Bowie *et al.*, *Science 247*:1306-1310 (1990).

The comparison of sequences and determination of percent identity and homology between two sequences can be accomplished using a mathematical algorithm. (Computational Molecular Biology, Lesk, A.M.,ed., Oxford University Press, New York, 1988; Biocomputing: Informatics and Genome Projects, Smith, D.W., ed., Academic Press, New York, 1993; Computer Analysis of Sequence Data, Part 1, Griffin, A.M., and Griffin, H.G., eds., Humana Press, New Jersey, 1994; Sequence Analysis in Molecular Biology, von Heinje, G., Academic Press, 1987; and Sequence Analysis Primer, Gribskov, M. and Devereaux, J., eds., M. Stockton Press, New York, 1991). In a preferred embodiment, the percent identity between two amino acid sequences is determined using the Needleman and Wunsch (J. Mol. Biol. (48):444-453 (1970)) algorithm which has been incorporated into the GAP program in

5

10

15

20

25

30

the GCG software package (available on March 29, 2000 at http://www.gcg.com), using either a Blossom 62 matrix or a PAM250 matrix, and a gap weight of, for example, 16, 14, 12, 10, 8, 6, or 4 and a length weight of, for example, 1, 2, 3, 4, 5, or 6. In yet another preferred embodiment, the percent identity between two nucleotide sequences is determined using the GAP program in the GCG software package (Devereux, J., et al., Nucleic Acids Res. 12(1):387 (1984)) (available on March 29, 2000 at http://www.gcg.com), using a NWSgapdna.CMP matrix and a gap weight of, for example, 40, 50, 60, 70, or 80 and a length weight of, for example, 1, 2, 3, 4, 5, or 6. In another embodiment, the percent identity between two amino acid or nucleotide sequences is determined using the algorithm of E. Meyers and W. Miller (CABIOS, 4:11-17 (1989)) which has been incorporated into the ALIGN program (version 2.0), using, for example, a PAM120 weight residue table, a gap length penalty of 12 and a gap penalty of 4.

The protein sequences of the present invention, for example, amino acids 802-1124 of human Tie-2 (SEQ ID NO 1), can further be used as a "query sequence" to perform a search against databases to, for example, identify other family members or related sequences. Such searches can be performed using the NBLAST and XBLAST programs (version 2.0) of Altschul, *et al.* (*J. Mol. Biol. 215*:403-10 (1990)). BLAST protein searches can be performed with the XBLAST program, for example, score = 50, word length = 3, to obtain amino acid sequences homologous to the proteins of the invention. To obtain gapped alignments for comparison purposes, gapped BLAST can be utilized as described in Altschul *et al.*, (Nucleic Acids Res. 25(17):3389-3402 (1997)). When utilizing BLAST and gapped BLAST programs, the default parameters of the respective programs (*e.g.*, XBLAST and NBLAST) can be used as given on March 29, 2000 at http://www.ncbi.nlm.nih.gov.

Homology for amino acid sequences can be defined in terms of the parameters set by the Advanced Blast search available from NCBI (the National Center for Biotechnology Information; see, for Advanced BLAST, www.ncbi.nlm.nih.gov/cgi-bin/BLAST/nph-newblast?Jform=1 (on March 29, 2000)). These default parameters, recommended for a query molecule of length greater than 85 amino acid residues or nucleotides have been set as follows: gap existence cost, 11, per residue gap cost, 1;

lambda ratio, 0.85. Further explanation of version 2.0 of BLAST can be found on related website pages and in Altschul, S.F. *et al.*, *Nucleic Acids Res.* 25:3389-3402 (1997).

5

10

15

20

25

30

In one embodiment, the polypeptide includes amino acids 802 to 1124 of SEQ ID NO: 1. Polypeptides can also have amino acids 792 to 1124, 782 to 1124, 772 to 1124, 812 to 1124, 822 to 1124, 832 to 1124, 802 to 1114, 802 to 1104, or 802 to 1094 of SEQ ID NO 1. In another embodiment, the polypeptide can be a catalytically inactive mutant of Tie-2, such as SEQ ID NO 2, wherein the asparagine amino acid at 964 is replaced with an aspartic acid amino acid (designated D964N mutant). Other catalytically inactive mutants include substitution of the asparagine amino acid at 964 with alanine, serine, threonine, or glycine.

In another embodiment, the catalytic domain which is crystallized can have deletions of amino acids from the native sequence. For example, a polypeptide which is suitable for crystallization can include amino acids 802 to 918 of SEQ ID NO 1 fused to amino acids 934 to 1124 of SEQ ID NO 1 or other related "kinase-insert domain" deletions.

The crystalline polypeptide, preferably, further includes a ligand bound to the Tie-2 catalytic domain. The ligand is, preferably, a small (less than about 1500 molecular weight) organic molecule, for example, inhibitor I, II, III, or IV.

In one embodiment, the invention relates to a method of determining the three dimensional structure of a first polypeptide comprising the catalytic domain of a Tie-2 protein. The method includes the steps of (1) obtaining a crystal comprising the first polypeptide; (2) obtaining x-ray diffraction data for said crystal; and (3) using the x-ray diffraction data and the atomic coordinates of a second polypeptide comprising the catalytic domain of a Tie-2 protein to solve the crystal structure of the first polypeptide, thereby determining the three dimensional structure of the first polypeptide. The second polypeptide can include the same Tie-2 catalytic domain as the first polypeptide, or a different Tie-2 catalytic domain. Either or both of the first and second polypeptides can, optionally, be complexed with a ligand. That is, the crystal of the first polypeptide can comprise a complex of the first polypeptide with a ligand. The atomic coordinates of the second polypeptide can, optionally, include the

atomic coordinates of a ligand molecule bound to the second polypeptide. The atomic coordinates of the second polypeptide, generally, have been previously obtained, for example, by x-ray crystallographic analysis of a crystal comprising the second polypeptide or a complex of the second polypeptide with a ligand. The atomic coordinates of the second polypeptide can be used to solve the crystal structure using methods known in the art, for example, molecular replacement or isomorphous replacement. Preferably, the second polypeptide comprises the catalytic domain of a mammalin Tie-2, more preferably, human Tie-2. For example the atomic coordinates which can be used include the atomic coordinates presented herein, preferably the atomic coordinates presented in Figures 3-7.

The invention also provides a method of identifying a compound which is a potential inhibitor of Tie-2. The method comprises the steps of (1) obtaining a crystal of a polypeptide comprising the catalytic domain of Tie-2; (2) obtaining the atomic coordinates of the polypeptide by x-ray diffraction studies using said crystal; (3) using said atomic coordinates to define the catalytic domain of Tie-2; and (4) identifying a compound which fits the catalytic domain. The method can further include the steps of obtaining, for example, from a compound library, or synthesizing the compound identified in step 4, and assessing the ability of the identified compound to inhibit Tie-2 enzymatic activity.

20

25

5

10

15

The polypeptide preferably comprises the catalytic domain of a mammalian Tie-2. More preferably the polypeptide comprises the catalytic domain of human Tie-2. In a preferred embodiment, the polypeptide is a polypeptide of the present invention, as described above.

The polypeptide can be crystallized using methods known in the art, such as the methods described in the Examples, to afford polypeptide crystals which are suitable for x-ray diffraction studies. A crystalline polypeptide/ligand complex can be produced by soaking the resulting crystalline polypeptide in a solution including the ligand. Preferably, the ligand solution is in a solvent in which the polypeptide is insoluble.

30

The atomic coordinates of the polypeptide (and ligand) can be determined, for example, by x-ray crystallography using methods known in the art. The data obtained

WO 01/72778 PCT/US01/08853 -25-

from the crystallography can be used to generate atomic coordinates, for example, of the atoms of the polypeptide and ligand, if present. As is known in the art, solution and refinement of the x-ray crystal structure can result in the determination of coordinates for some or all of the non-hydrogen atoms. The atomic coordinates can be used, as is known in the art, to generate a three-dimensional structure of the Tie-2 catalytic domain. This structure can then be used to assess the ability of any given compound, preferably using computer-based methods, to fit into the catalytic domain.

5

10

15

20

25

30

A compound fits into the catalytic domain if it is of a suitable size and shape to physically reside in the catalytic domain, that is, if it has a shape which is complementary to the catalytic domain and can reside in the catalytic domain without significant unfavorable steric or van der Waals interactions. Preferably, the compound includes one or more functional groups and/or moieties which interact with one or more subsites within the catalytic domain. Computational methods for evaluating the ability of a compound to fit into the catalytic domain, as defined by the atomic coordinates of the polypeptide, are known in the art, and representative examples are provided below.

In another embodiment, the method of identifying a potential inhibitor of Tie-2 comprises the step of determining the ability of one or more functional groups and/or moieties of the compound, when present in the Tie-2 catalytic domain, to interact with one or more subsites of the Tie-2 catalytic domain. Preferably, the Tie-2 catalytic domain is defined by the atomic coordinates of a polypeptide comprising the Tie-2 catalytic domain. If the compound is able to interact with a preselected number or set of subsites, the compound is identified as a potential inhibitor of Tie-2.

A functional group or moiety of the compound is said to "interact" with a subsite of the Tie-2 catalytic domain if it participates in an energetically favorable, or stabilizing, interaction with one or more complementary moieties within the subsite. Two chemical moieties are "complementary" if they are capable, when suitably positioned, of participating in an attractive, or stabilizing, interaction, such as an electrostatic or van der Waals interaction. Typically, the attractive interaction is an ion-ion (or salt bridge), ion-dipole, dipole-dipole, hydrogen bond, pi-pi or hydrophobic interaction. For example, a negatively charged moiety and a positively

WO 01/72778 PCT/US01/08853 -26-

5

10

15

25

30

charged moiety are complementary because, if suitably positioned, they can form a salt bridge. Likewise, a hydrogen bond donor and a hydrogen bond acceptor are complementary if suitably positioned.

Typically, an assessment of interactions between the test compound and the Tie-2 catalytic domain may employ computer-based computational methods, such as those known in the art, in which possible interactions of a compound with the protein, as defined by atomic coordinates, are evaluated with respect to interaction strength by calculating the interaction energy upon binding the compound to the protein. Compounds which have calculated interaction energies within a preselected range or which otherwise, in the opinion of the computational chemist employing the method, have the greatest potential as Tie-2 inhibitors, can then be provided, for example, from a compound library or via synthesis, and assayed for the ability to inhibit Tie-2. The

compound to interact with one or more subsites within the protein catalytic domain.

interaction energy for a given compound generally depends upon the ability of the

In one embodiment, the atomic coordinates used in the method are the atomic coordinates set forth in Figs. 3A-3OO, 4A-4OO, 5A-5RR and 6A-6NN. It is to be understood that the coordinates set forth in Figs. 3-6 can be transformed, for example, into a different coordinate system, in ways known to those skilled in the art without substantially changing the three dimensional structure represented thereby.

In certain cases, a moiety of the compound can interact with a subsite via two

strength of these individual interactions.

or more individual interactions. A moiety of the compound and a subsite can interact if they have complementary properties and are positioned in sufficient proximity and in a suitable orientation for a stabilizing interaction to occur. The possible range of distances for the moiety of the compound and the subsite depends upon the distance dependence of the interaction, as is known in the art. For example, a hydrogen bond typically occurs when a hydrogen bond donor atom, which bears a hydrogen atom, and a hydrogen bond acceptor atom are separated by about 2.5 Å and about 3.5 Å. Hydrogen bonds are well known in the art (Pimentel *et al.*, *The Hydrogen Bond*, San Francisco: Freeman (1960)). Generally, the overall interaction, or binding, between the compound and the Tie-2 catalytic domain will depend upon the number and

The ability of a test compound to interact with one or more subsites of the catalytic domain of Tie-2 can be determined by computationally evaluating interactions between functional groups, or moieties, of the test compound and one or more amino acid side chains in a particular protein subsite, such as subsites 1 to 9 above. Typically, a compound which is capable of participating in stabilizing interactions with a preselected number of subsites, preferably without simultaneously participating in significant destabilizing interactions, is identified as a potential inhibitor of Tie-2. Such a compound will interact with one or more subsites, preferably with two or more subsites and, more preferably, with three or more subsites.

5

10

15

20

25

30

The invention further provides a method of designing a compound which is a potential inhibitor of Tie-2. The method includes the steps of (1) identifying one or more functional groups capable of interacting with one or more subsites of the Tie-2 catalytic domain; and (2) identifying a scaffold which presents the functional group or functional groups identified in step 1 in a suitable orientation for interacting with one or more subsites of the Tie-2 catalytic domain. The compound which results from attachment of the identified functional groups or moieties to the identified scaffold is a potential inhibitor of Tie-2. The Tie-2 catalytic domain is, generally, defined by the conserved homolohous sequence when compared to other known tyrosine kinases, for example, the atomic coordinates set forth in Figs. 3A-3OO, 4A-4OO, 5A-5RR and 6A-6NN.

Suitable methods, as are known in the art, can be used to identify chemical moieties, fragments or functional groups which are capable of interacting favorably with a particular subsite or set of subsites. These methods include, but are not limited to: interactive molecular graphics; molecular mechanics; conformational analysis; energy evaluation; docking; database searching; pharmacophore modeling; de novo design and property estimation. These methods can also be employed to assemble chemical moieties, fragments or functional groups into a single inhibitor molecule. These same methods can also be used to determine whether a given chemical moiety, fragment or functional group is able to interact favorably with a particular subsite or set of subsites.

WO 01/72778 PCT/US01/08853 -28-

In one embodiment, the design of potential human Tie-2 inhibitors begins from the general perspective of three-dimensional shape and electrostatic complementarity for the catalytic domain, encompassing subsites 1-9, and subsequently, interactive molecular modeling techniques can be applied by one skilled in the art to visually inspect the quality of the fit of a candidate inhibitor modeled into the binding site. Suitable visualization programs include INSIGHTII (Molecular Simulations Inc., San Diego, CA), QUANTA (Molecular Simulations Inc., San Diego, CA), SYBYL (Tripos Inc., St Louis, MO), RASMOL (Roger Sayle *et al.*, *Trends Biochem. Sci.* 20: 374-376 (1995)), GRASP (Nicholls *et al.*, *Proteins* 11: 281-289 (1991)), and MIDAS (Ferrin *et al.*, *J. Mol. Graphics* 6:13-27 (1988)).

5

10

15

20

25

30

A further embodiment of the present invention utilizes a database searching program which is capable of scanning a database of small molecules of known threedimensional structure for candidates which fit into the target protein site. Suitable software programs include CATALYST (Molecular Simulations Inc., San Diego, CA), UNITY (Tripos Inc., St Louis, MO), FLEXX (Rarey et al., J. Mol. Biol. 261: 470-489 (1996)), CHEM-3DBS (Oxford Molecular Group, Oxford, UK), DOCK (Kuntz et al., J. Mol. Biol 161: 269-288 (1982)), and MACCS-3D (MDL Information Systems Inc., San Leandro, CA). It is not expected that the molecules found in the search will necessarily be leads themselves, since a complete evaluation of all interactions will necessarily be made during the initial search. Rather, it is anticipated that such candidates might act as the framework for further design, providing molecular skeletons to which appropriate atomic replacements can be made. Of course, the chemical complimentary of these molecules can be evaluated, but it is expected that the scaffold, functional groups, linkers and/or monomers may be changed to maximize the electrostatic, hydrogen bonding, and hydrophobic interactions with the enzyme. Goodford (Goodford J Med Chem 28:849-857 (1985)) has produced a computer program, GRID, which seeks to determine regions of high affinity for different chemical groups (termed probes) on the molecular surface of the binding site. GRID hence provides a tool for suggesting modifications to known ligands that might enhance binding.

5

10

15

20

25

30

-29-

A range of factors, including electrostatic interactions, hydrogen bonding, hydrophobic interactions, desolvation effects, conformational strain or mobility, chelation and cooperative interaction and motions of ligand and enzyme, all influence the binding effect and should be taken into account in attempts to design bioactive inhibitors.

Yet another embodiment of a computer-assisted molecular design method for identifying inhibitors comprises searching for fragments which fit into a binding region subsite and link to a predefined scaffold. The scaffold itself may be identified in such a manner. Programs suitable for the searching of such functional groups and monomers include LUDI (Boehm, *J Comp. Aid. Mol. Des.* 6:61-78 (1992)), CAVEAT (Bartlett *et al.* in "Molecular Recognition in Chemical and Biological Problems", special publication of *The Royal Chem. Soc.*, 78:182-196 (1989)) and MCSS (Miranker *et al. Proteins* 11: 29-34 (1991)).

Yet another embodiment of a computer-assisted molecular design method for identifying inhibitors of the subject phosphatase comprises the *de novo* synthesis of potential inhibitors by algorithmic connection of small molecular fragments that will exhibit the desired structural and electrostatic complementarity with the active site of the enzyme. The methodology employs a large template set of small molecules with are iteratively pieced together in a model of the Tie-2 active site. Programs suitable for this task include GROW (Moon *et al. Proteins* 11:314-328 (1991)) and SPROUT (Gillet *et al. J Comp. Aid. Mol. Des.* 7:127 (1993)).

In yet another embodiment, the suitability of inhibitor candidates can be determined using an empirical scoring function, which can rank the binding affinities for a set of inhibitors. For an example of such a method see Muegge *et al.* and references therein (Muegge *et al.*, *J Med. Chem.* **42**:791-804 (1999)).

Other modeling techniques can be used in accordance with this invention, for example, those described by Cohen et al. (J. Med. Chem. 33: 883-894 (1994)); Navia et al. (Current Opinions in Structural Biology 2: 202-210 (1992)); Baldwin et al. (J. Med. Chem. 32: 2510-2513 (1989)); Appelt et al. (J. Med. Chem. 34: 1925-1934 (1991)); and Ealick et al. (Proc. Nat. Acad. Sci. USA 88: 11540-11544 (1991)).

A compound which is identified by one of the foregoing methods as a potential inhibitor of Tie-2 can then be obtained, for example, by synthesis or from a compound library, and assessed for the ability to inhibit Tie-2 *in vitro*. Such an *in vitro* assay can be performed as is known in the art, for example, by contacting Tie-2 in solution with the test compound in the presence of a substrate for Tie-2. The rate of substrate transformation can be determined in the presence of the test compound and compared with the rate in the absence of the test compound. Suitable assays for Tie-2 biological activity are described in Example 4.

5

10

15

20

25

30

-30-

An inhibitor identified or designed by a method of the present invention can be a competitive inhibitor, an uncompetitive inhibitor or a noncompetitive inhibitor. A "competitive" inhibitor is one that inhibits Tie-2 activity by binding fully or partially within the same region of Tie-2, as ATP, thereby directly competing with ATP for the active site of Tie-2. An "uncompetitive" inhibitor inhibits Tie-2 by binding to a different region of the enzyme than ATP. Such inhibitors bind to Tie-2 already bound with ATP and not to the free enzyme. A "non-competitive" inhibitor is one that can bind to either the free or ATP bound form of Tie-2. In some instances, an inhibitor may inhibit the enzymes catalytic activity by impeding the binding of multiple substrates (e.g., ATP and tyrosyl substrates). this may be accomplished by fully or partially occluding multiple substrate binding sites, or by occupying a site which allosterically or conformationally reduces affinities for substrates or blocks product release.

In another embodiment, the present invention provides Tie-2 inhibitors, and methods of use thereof, which are capable of binding to the catalytic domain of Tie-2, for example, compounds which are identified as inhibitors of at least one biological activity of Tie-2 or which are designed by the methods described above to inhibit at least one biological activity of Tie-2. For example, the invention includes compounds which interact with one or more, preferably two or more, and more preferably, three or more of Tie-2 subsites 1 to 9.

In one embodiment, the Tie-2 inhibitor of the invention comprises a moiety or moieties positioned to interact with subsite 1, subsite 2 and, optionally, with at least one other subsite, when present in the Tie-2 catalytic domain. For example, a

functional group which can interact with subsite 1 can be a hydrogen bond donor, a hydrogen bond acceptor, or a hydrophobic moiety. A functional group which can interact with subsite 2 can be a hydrophobic group, hydrogen bond donor, or a hydrogen bond acceptor.

In another embodiment, the Tie-2 inhibitor of the invention comprises functional groups positioned to interact with subsites 1, 2 and 3, and, optionally, one or more additional subsites.

5

10

15

20

25

30

The Tie-2 inhibitors of the invention also include compounds having functional groups positioned to interact with subsite 1, subsite 2, subsite 8 and, optionally, one or more additional subsites. In another embodiment, the inhibitor has functional groups positioned to interact with subsite 1, subsite 2, subsite 3, subsite 8, and, optionally, one or more additional subsites.

In other embodiments, the Tie-2 inhibitors of the invention include compounds which have functional groups positioned to interact with the following groups of subsites, each of which can, optionally, include one or more additional subsites: subsites 1, 4, and 5; subsites 1, 2, 7 and 8; subsites 1, 2, 3, 7 and 8; subsites 1, 2, 3, 4, 6 and 8; subsites 1, 2, 3, 4, 6 and 8.

A moiety of the inhibitor compound is "positioned to interact" with a given subsite, if, when placed within the Tie-2 catalytic domain, as defined by the atomic coordinates presented in Figs. 3-6, the moiety is proximal to, and oriented properly relative to, the appropriate amino acid side chains within the subsite.

As indicated in the description of the subsites above, several of subsites 1-9 can potentially interact with two or more types of moieties. For each of the subsites listed below the preferred type of interacting moiety possessed by the potential inhibitor is indicated.

Subsite 1: hydrogen bond donor (E903) and hydrogen bond acceptor (A905).

Subsite 2: hydrophobic, preferably aromatic, moiety (I830, V838, I886, I902 and L971).

Subsite 3: hydrophobic, preferably alkyl, moiety (I830 and L971) and a positively charged moiety (D912).

Subsite 4: hydrogen acceptor moiety (D982 and F938).

5

10

15

20

25

30

Subsite 8: hydrophobic, preferably aromatic, moiety (L876, I886, L888 and F983)

A preferred Tie-2 inhibitor of the invention inhibits Tie-2 enzymatic activity with a Ki of at least about 1 mM, preferably at least about 100 μ M and more preferably at least about 10 μ M. In another embodiment, a Tie-2 inhibitor binds selectively to a Tie-2 receptor over other tyrosine kinase receptors, such as insulin receptor or Csk, KDR, lck, or zap. In a preferred embodiment, the inhibitor has a K_i 0.1 fold or less for a Tie-2 receptor than for an insulin receptor or Csk. In a more preferred embodiment, the inhibitor has K_i 0.01 fold or less for a Tie-2 receptor than for an insulin receptor or Csk. In a most preferred embodiment, the inhibitor has an K_i 0.001 fold less or less for a Tie-2 receptor than for an insulin receptor or Csk.

In a preferred embodiment, the Tie-2 inhibitor of the invention comprises two or more of the following when present at, or bound to, the Tie-2 catalytic domain:

(a) a hydrogen bond donor positioned to interact with Glu 903 of human Tie-2; (b) a hydrogen bond acceptor positioned to interact with Ala 905 of human Tie-2; (c) a hydrogen bond donor positioned to interact with Ala 905 of human Tie-2; (d) a hydrophobic moiety positioned to interact with one or more of Ile 830, Val 838, Ala 853, Ile 886, Ile 902, Tyr 904, Ala 905 and Leu 971 of human Tie-2; (e) a hydrogen bond donor or positively charged functional group positioned to interact with Asp 912 of human Tie-2; (f) a hydrogen bond donor or hydrogen bond acceptor postioned to interact with Asn 909 of human Tie-2; (g) a hydrophobic moiety positioned to interact with one or more of Val 838, Lys 855, Ile 886, Ile 902, Leu 971 and Ala 981 of human Tie-2; (h) a hydrogen bond acceptor or negatively charged functional group positioned to interact with Lys 855 of human Tie-2; (i) a hydrogen bond acceptor positioned to interact with Asp 982 of human Tie-2; (j) a hydrogen bond acceptor

WO 01/72778

-33-

positioned to interact with Phe 983 of human Tie-2; (k) a hydrophobic moiety positioned to interact with one or more of Leu 873, Leu 876, Ile 885, Ile 886, Leu 888, Leu 900, Ile 902, Ala 981 and Phe 983 of human Tie-2; (l) a hydrogen bond donor or positively charged functional group positioned to interact with Asp 982 of human Tie-2; (m) a hydrogen bond donor positioned to interact with Ile 886 of human Tie-2; (n) a hydrogen bond acceptor positioned to interact with Gly 831 of human Tie-2; (p) a hydrogen bond donor or positively charged functional group positioned to interact with Glu 832 of human Tie-2; (q) a hydrogen bond acceptor or negatively charged functional group positioned to interact with Lys 840 of human Tie-2; (r) a hydrogen bond acceptor or negatively charged functional group positioned to interact with Lys 916 of human Tie-2; (s) a hydrogen bond acceptor or negatively charged functional group positioned to interact with Arg 968 of human Tie-2; (t) a hydrogen bond donor positioned to interact with Arg 968 of human Tie-2.

15

10

5

In preferred embodiments, the Tie-2 inhibitors of the invention comprise (b) and (d); (d) and at least one of (a), (b) and (c); (d) and at least two of (a), (b) and (c); (d) and at least two of (a), (b) and (c), and at least one of (e) and (f); (d) and (g), and at least two of (a), (b) and (c); (d), (g), at least two of (a), (b) and (c) and at least one of (e) and (f); (d), (g), (k), and at least two of (a), (b) and (c); (d), (g), (k), at least one of (e) and (f), at least two of (a), (b), and (c); (d), at least one of (i) and (j), and at least two of (a), (b) and (c), at least one of (e) and (f), and at least two of (a), (b) and (c), at least one of (i) and (j), and at least two of (a), (b) and (c); and (d), (g), (k), at least one of (e) and (f), and at least two of (a), (b) and (c).

25

30

20

Preferred Tie-2 inhibitors of the invention comprise a molecular scaffold or framework, to which the moieties and/or functional groups which interact with the Tie-2 subsites are attached, either directly or via an intervening moiety. The scaffold can be, for example, a peptide or peptide mimetic backbone, a cyclic or polycyclic moiety, such as a monocyclic, bicyclic or tricyclic moiety, and can include one or more hydrocarbonyl or heterocyclic rings. The molecular scaffold presents the

PCT/US01/08853

attached interacting moieties in the proper configuration or orientation for interaction with the appropriate residues of Tie-2.

Pyrrolopyrimidines, such as inhibitor, I, II, III or IV, are preferred Tie-2 inhibitors. Methods for synthesizing pyrrolopyrimidines are described in PCT application number WO99/21560, the teachings of which are incorporated herein by reference in their entirety. In one embodiment, the inhibitors of the invention do not include the pyrrolopyrimidines represented by structural formula V:

10

5

$$R_2$$
 R_3
 R_2
 R_3

Ring A is a six membered aromatic ring or a five or six membered

15

and pharmaceutically acceptable salts thereof, wherein:

20

heteroaromatic ring which is optionally substituted with one or more substituents selected from the group consisting of a substituted or

25

unsubstituted aliphatic group, a halogen, a substituted or unsubstituted aromatic group, substituted or unsubstituted heteroaromatic group, substituted or unsubstituted cycloalkyl, substituted or unsubstituted heterocycloalkyl, substituted or unsubstituted aralkyl, substituted or unsubstituted heteroaralkyl, cvano, nitro, -NR₄R₅, -C(O)₂H₁, -OH₂, a substituted or unsubstituted alkoxycarbonyl, -C(O)₂-haloalkyl, a substituted or unsubstituted alkylthio ether, a substituted or unsubstituted alkylsulfoxide, a substituted or unsubstituted alkylsulfone, a substituted or unsubstituted arylthio ether, a substituted or unsubstituted arylsulfoxide, a substituted or unsubstituted arylsulfone, a substituted or unsubstituted alkyl carbonyl, -C(O)-haloalkyl, a substituted or unsubstituted aliphatic ether, a substituted or unsubstituted aromatic ether, carboxamido, tetrazolyl, trifluoromethylsulphonamido,

30

5

10

15

20

25

trifluoromethylcarbonylamino, a substituted or unsubstituted alkynyl, a substituted or unsubstituted alkyl amido, a substituted or unsubstituted aryl amido, $-NR_{95}C(O)R_{95}$, a substituted or unsubstituted styryl and a substituted or unsubstituted aralkyl amido, wherein R_{95} is an aliphatic group or an aromatic group;

L is -O-; -S-; -S(O)-; -S(O)₂-; -N(R)-; -N(C(O)OR)-; -N(C(O)R)-; -N(SO₂R); -CH₂O-; -CH₂S-; -CH₂N(R)-; -CH(NR)-; -CH₂N(C(O)R))-; -CH₂N(C(O)OR)-; -CH₂N(SO₂R)-; -CH(NHR)-; -CH(NHC(O)R)-; -CH(NHSO₂R)-; -CH(NHC(O)OR)-; -CH(OC(O)NHR)-; -CH=CH-; -C(=NOR)-; -C(O)-; -CH(OR)-; -N(R)C(O)-; -N(R)S(O)-; -N(R)S(O)₂-; -OC(O)N(R)-; -N(R)C(O)N(R)-; -NRC(O)O-; -S(O)N(R)-; -S(O)₂N(R)-; N(C(O)R)S(O)-; N(C(O)R)S(O)₂-; -N(R)S(O)N(R)-; -N(R)S(O)₂N(R)-; -C(O)N(R)C(O)-; -S(O)N(R)C(O)-; -S(O)N(R)C(O)-; -OS(O)N(R)-; -OS(O)N(R)-; -OS(O)₂N(R)-; -N(R)S(O)O-; -N(R)S(O)O-; -N(R)S(O)C(O)-; -

$$\begin{split} N(R)S(O)_2C(O)-; -SON(C(O)R)-; -SO_2N(C(O)R)-; -N(R)SON(R)-; -N(R)SO_2N(R)-; -N(R)SO_2N(R)-; -C(O)O-; \\ -N(R)P(OR')O-; -N(R)P(OR')-; -N(R)P(O)(OR')O-; -N(R)P(O)(OR')-; -N(C(O)R)P(OR')O-; -N(C(O)R)P(OR')O-; -N(C(O)R)P(OR')-; -N(C(O)R)P(OR')O-; -N(C(O)R)P(OR')-; -N(C(O)R)P(OR')O-; -N(C(O)R)P(OR')-; -N(C(O)R)P(OR')-$$

group, a substituted or unsubstituted aliphatic group, a substituted or unsubstituted or unsubstituted or unsubstituted or unsubstituted heteroaromatic group, or a substituted or unsubstituted cycloalkyl group; or

L is $-R_bN(R)S(O)_{2^-}$, $-R_bN(R)P(O)$ -, or $-R_bN(R)P(O)O$ -, wherein R_b is an alkylene group which when taken together with the sulphonamide, phosphinamide, or phosphonamide group to which it is bound forms a five or six membered ring fused to ring A; or

L is represented by one of the following structural formulas:

15

20

25

30

wherein R_{85} taken together with the phosphinamide, or phophonamide is a 5-, 6-, or 7-membered, aromatic, heteroaromatic or heterocycloalkyl ring system;

 R_1 is a substituted aliphatic group, a substituted cycloalkyl, a substituted bicycloalkyl, a substituted cycloalkenyl, an optionally substituted aromatic group, an optionally substituted heteroaromatic group, an optionally substituted heterocycloalkyl, an optionally substituted heterocycloalkyl, an optionally substituted alkylamindo, and optionally substituted arylamido, an optionally substituted - $S(O)_2$ -alkyl or optionally substituted - $S(O)_2$ -cycloalkyl, a -C(O)-alkyl or an optionally substituted -C(O)-alkyl, provided that when R_1 is an aliphatic group or cycloalkyl group, R_1 is not exclusively substituted with one or more substitutent selected from the group consisting of hydroxyl and lower alkyl ethers, provided that the heterocycloalkyl is not 2-phenyl-1,3-dioxan-5-yl and

5

10

15

20

25

30

PCT/US01/08853

provided that an aliphatic group is not substituted exclusively with one or more aliphatic groups, wherein one or more substituent is selected from the group consisting of a substituted or unsubstituted aliphatic group, a substituted or unsubstituted aromatic group, a substituted or unsubstituted heteroaromatic, a substituted or unsubstituted aralkyl, a substituted or unsubstituted heteroaralkyl, a substituted or unsubstituted cycloalkyl, a substituted or unsubstituted heterocycloalkyl, a substituted or unsubstituted aromatic ether, a substituted or unsubstituted aliphatic ether, a substituted or unsubstituted alkoxycarbonyl, a substituted or unsubstituted alkylcarbonyl, a substituted or unsubstituted arylcarbonyl, a substituted or unsubstituted heteroarylcarbonyl, substituted or unsubstituted aryloxycarbonyl, -OH, a substituted or unsubstituted aminocarbonyl, an oxime, a substituted or unsubstituted azabicycloalkyl, heterocycloalkyl, oxo, aldehyde, a substituted or unsubstituted alkyl sulfonamido group, a substituted or unsubstituted aryl sulfonamido group, a substituted or unsubstituted bicycloalkyl, a substituted or unsubstituted heterobicycloalkyl, cyano, -NH₂, an alkylamino, ureido, thioureido and –B-E;

B is a substituted or unsubstituted cycloalkyl, a substituted or unsubstituted heterocycloalkyl, a substituted or unsubstituted aromatic, a substituted or unsubstituted heteroaromatic, an alkylene, an aminoalkyl, an alkylenecarbnonyl, or an aminoalkylcarbonyl;

E is a substituted or unsubstituted azacycloalkyl, a substituted or unsubstituted azacycloalkylcarbonyl, a substituted or unsubstituted azacycloalkylsulfonyl, a substituted or unsubstituted azacycloalkylalkyl, a substituted or unsubstituted heteroaryl, a substituted or unsubstituted heteroarylcarbonyl, a substituted or unsubstituted heteroarylsulfonyl, a substituted or unsubstituted or unsubstituted alkyl sulfonamido, a substituted or unsubstituted aryl sulfonamido, a substituted or unsubstituted or unsubstituted ureido, a substituted or unsubstituted thioureido or a substituted or unsubstituted aryl;

R₂ is –H, a substituted or unsubstituted aliphatic group, a substituted or unsubstituted cycloalkyl, a halogen, -OH, cyano, a substituted or unsubstituted aromatic group, a substituted or unsubstituted heteroaromatic group, a substituted or unsubstituted heterocycloalkyl, a substituted or unsubstituted aralkyl, a substituted or unsubstituted heteroaralkyl, -NR₄R₅, or -C(O)NR₄R₅;

R₃ is a substituted or unsubstituted aliphatic group, a substituted or unsubstituted alkenyl group, a substituted or unsubstituted cycloalkyl, a substituted or unsubstituted aromatic group, a substituted or unsubstituted heterocycloalkyl;

provided that L is -SN(R)-, -S(O)N(R)-, $-S(O)_2N(R)$ -, -N(R)S-, -N(R)S(O)-, $-N(R)S(O)_2$ -, -N(R)SN(R')-, -N(R)S(O)N(R')-, or $-N(R)S(O)_2N(R')$ -when R_3 is a substituted or unsubstituted aliphatic group, a substituted or unsubstituted alkenyl group;

provided that j is 0 when L is -O-, $-CH_2NR$ -, -C(O)NR- or -NRC(O)and R_3 is azacycloalkyl or azaheteroaryl; and

provided that j is 0 when L is -O- and R₃ is phenyl;

R₄, R₅ and the nitrogen atom together form a 3, 4, 5, 6 or 7-membered, substituted or unsubstituted heterocycloalkyl, substituted or unsubstituted heterobicycloalkyl or a substituted or unsubstituted heteroaromatic; or

R₄ and R₅ are each, independently, -H, azabicycloalkyl, heterocycloalkyl, a substituted or unsubstituted alkyl group or Y-Z;

Y is selected from the group consisting of -C(O)-, $-(CH_2)_p$ -, $-S(O)_2$ -, -C(O)O-, $-SO_2NH$ -, -CONH-, $(CH_2)_pO$ -, $-(CH_2)_pNH$ -, $-(CH_2)_pS$ -, $-(CH_2)_pS$ (O)-, and $-(CH_2)_pS(O)_2$ -;

p is an integer from 0 to 6;

Z is –H, a substituted or unsubstituted alkyl, substituted or unsubstituted amino, substituted or unsubstituted aryl, substituted or unsubstituted heterocycloalkyl group; and

j an integer from 0 to 6.

As used herein, aromatic groups include carbocyclic ring systems (e.g. phenyl

10

5

15

20

25

-39-

5

10

15

20

25

30

and cinnamyl) and fused polycyclic aromatic ring systems (e.g. naphthyl and 1,2,3,4-tetrahydronaphthyl). Arromatic groups are also referred to as aryl groups herein.

Heteroaromatic groups, as used herein, include heteroaryl ring systems (e.g., thienyl, pyridyl, pyrazole, isoxazolyl, thiadiazolyl, oxadiazolyl, indazolyl, furans, pyrroles, imidazoles, pyrazoles, triazoles, pyrimidines, pyrazines, thiazoles, isoxazoles, isothiazoles, tetrazoles, or oxadiazoles) and heteroaryl ring systems in which a carbocyclic aromatic ring, carbocyclic non-aromatic ring or heteroaryl ring is fused to one or more other heteroaryl rings (e.g., benzo(b)thienyl, benzimidazole, indole, tetrahydroindole, azaindole, indazole, quinoline, imidazopyridine, purine, pyrrolo[2,3-d]pyrimidine, pyrazolo[3,4-d]pyrimidine) and their N-oxides.

An aralkyl group, as used herein, is an aromatic substituent that is linked to a compound by an aliphatic group having from one to about six carbon atoms.

An heteroaralkyl group, as used herein, is a heteroaromatic substituent that is linked to a compound by an aliphatic group having from one to about six carbon atoms.

A heterocycloalkyl group, as used herein, is a non-aromatic ring system that has 3 to 8 atoms and includes at least one heteroatom, such as nitrogen, oxygen, or sulfur.

An acyl group, as used herein, is an $-C(O)NR_xR_z$, $-C(O)OR_x$, $-C(O)R_x$, in which R_x and R_z are each, independently, -H, a substituted or unsubstituted aliphatic group or a substituted or unsubstituted aromatic group.

As used herein, aliphatic groups include straight chained, branched or cyclic C_1 - C_8 hydrocarbons which are completely saturated or which contain one or more units of unsaturation. A "lower alkyl group" is a saturated aliphatic group having form 1-6 carbon atoms.

Inhibitor I bound to the catalytically inactive mutant of Tie-2 (see Fig. 2 for sequence and Fig. 3 for atomic coordinates) crystallized in the space group C2221. The x-ray crystallographic structure reveiled the following interactions:

The pyrrolopyrimidine ring of the inhibitor I forms hydrogen bonds to residues in the hinge region and interacts with purine core region. The core of the inhibitor presents a hydrogen bond donor in the form of the amino proton of the 4-NH₂

substituent to the carbonyl oxygen of E903. Atom N3 of the pyrimidine ring accepts a hydrogen bond from the backbone N-H of A905. The ring system of the core presents a planar face to residues of both the C-terminal and N-terminal lobes. The residues in these areas present a hydrophobic surface which "sandwiches" the planar core of the inhibitor. Residues involved in this hydrophobic sandwich region include I830, V838, I86, I902 and L971. Atoms N1 and N7 of the core face the solvent exposed mouth of the binding pocket. Atom C6 faces the long axis of the nucleotide binding loop of the N-terminal lobe of the protein.

The N7 cyclopentane ring is directed towards solvent but is still within the protein cavity. This region was described above as the extended sugar pocket after the binding mode of the ribose ring of ATP observed in other kinase structures. This region is characterized by hydrophobic interactions with primarily I830 and L971. Methylene groups of E832 may also contribute in this fashion.

The phenyl ring attached to C5 of the pyrrolopyrimidine ring is in a predominantly hydrophobic area, generated by residues from the purine core region, the distal hydrophobic pocket and methylene groups from the catalytic lysine, K855. The hydrophobic contacts are with residues V838, I886, I902, L971 and A981. Lysine 855 is highly mobile, so it is also possible that the Cl atom meta to the pyrrolopyrimidine ring is receiving a hydrogen bond.

The sulfonamide linker makes a clear hydrogen bond with an amide proton of D982 and may also make a hydrogen bond to the amide proton of F983.

The terminal phenyl ring (labelled ring C) is located in the distal hydrophobic pocket. Primary contacts are with L876, I886, L888 and F983.

Inhibitor II bound to the catalytically inactive mutant of Tie-2 (see Fig. 2 for sequence and Fig. 4 for atomic coordinates) crystallized in the space group P42212. The x-ray crystallographic structure reveiled the following additional interactions:

The pyrrolopyrimidine core, B-ring, linker and C-ring bind the same way as inhibitor I. The N-7 cyclohexyl N-methy piperazinyl group occupies the extended sugar pocket and makes a strong ionic interaction with D912.

Inhibitor III bound to the catalytically inactive mutant of Tie-2 (see Fig. 2 for sequence and Fig. 4 for atomic coordinates) crystallized in the space group P42212.

20

5

10

15

25

WO 01/72778 PCT/US01/08853

5

10

15

20

25

30

The x-ray crystallographic structure reveiled the following additional interactions:

-41-

The pyrrolopyrimidine core binds the same way as inhibitor I. The N-7 cyclohexyl N-methy piperazinyl group occupies the extended sugar pocket and makes a strong ionic interaction with D912 as in Tie-2/inhibitor II. The B-ring binds in a similar fashion to inhibitor I, however, the hydrogen bond between a halogen, fluorine in this case, and K855 is more clear. The linker makes two clear hydrogen bonds to backbone amide protons of D983 and F983. The C-ring occupies the distal hydrophobic pocket with main interactions coming from L876, I886, L888, L900, I902 and F983.

Inhibitor IV bound to the catalytically inactive mutant of Tie-2 (see Fig. 2 for sequence and Fig. 4 for atomic coordinates) crystallized in the space group P42212. The x-ray crystallographic structure reveiled the following additional interactions:

The pyrrolopyrimidine core binds the same way as inhibitor I. The N-7 cyclohexyl N-methy piperazinyl group occupies the extended sugar pocket and makes a strong ionic interaction with D912 as in Tie-2/inhibitor II. The B-ring binds in a similar fashion to inhibitor I, however there is no chlorine atom to act as a potential hydrogen bond partner. The linker in this case is an oxygen atom which accepts a hydrogen bond from the catalytic lysine, K855. The C-ring occupies the distal hydrophobic pocket with main interactions coming from L876, I886, I902 and F983.

In one embodiment, the present invention relates to a method of treating a Tie-2-dependent condition in a patient. The method comprises the step of administering to the patient a therapeutically effective amount of a Tie-2 inhibitor as described above. The patient can be any animal, and is, preferably, a mammal and, more preferably, a human.

A "Tie-2-dependent condition" is a disease or medical condition in which the catalytic activity of Tie-2 plays a role, for example, in the development of the disease or condition. For example, in one embodiment, the condition is characterized by excessive vascular proliferation. Tie-2 inhibitors are useful in treating angiogenesis dependent disorders, and disorders involving aberrant endothilial-pereindothelial interactions (e.g., restenosis).

WO 01/72778 PCT/US01/08853 -42-

Tie-2 dependent conditions include hyperproliferative disorders, cancer, a cardiovascular condition, an ocular condition, von Hippel Lindau disease, pemphigoid, psoriasis, Paget's disease, polycystic kidney disease, fibrosis, sarcoidosis, cirrhosis, thyroiditis, Osler-Weber-Rendu disease, chronic inflammation, synovitis, inflammatory bowel disease, Crohn's disease, rheumatoid arthritis, osteoarthritis, psoriatic arthritis, an ulcer and sepsis. In addition a Tie-2 inhibitor can be used to decrease fertility in a patient.

5

10

15

20

25

30

Preferred methods of treatment are where the cancer is a solid tumor, a sarcoma, fibrosarcoma, osteoma, melanoma, retinoblastoma, a rhabdomyosarcoma, glioblastoma, neuroblastoma, teratocarcinoma, an hematopoietic malignancy, malignant ascites, Kaposi's sarcoma, Hodgkin's disease, lymphoma, myeloma or leukemia.

Another preferred method of treatment is where the cardiovascular condition, atherosclerosis, restenosis, ischemia/reperfusion injury, chronic occlusive pulmonary disease, vascular occlusion, carotid obstructive disease, Crow-Fukase (POEMS) syndrome, anemia, ischemia, infarct, vascular leakage disorders.

Yet another preferred method of treatment is where the ocular condition is ocular or macular edema, ocular neovascular disease, scleritis, radial keratotomy, uveitis, vitritis, myopia, optic pits, chronic retinal detachment, post-laser treatment complications, conjunctivitis, Stargardt's disease, Eales disease, retinopathy, macular degeneration or microangiopathy.

A Tie-2 inhibitor can also be used in a method of promoting angiogenesis or vasculogenesis. In addition, a Tie-2 inhibitor can be administered with a proangiogenic growth factor.

A therapeutically effective amount, as this term is used herein, is an amount which results in partial or complete inhibition of disease progression or symptoms. Such an amount will depend, for example, on the size and gender of the patient, the condition to be treated, the severity of the symptoms and the result sought, and can be determined by one skilled in the art.

The compound of the invention can, optionally, be administered in combination with one or more additional drugs or therapies which, for example, are

WO 01/72778 PCT/US01/08853

5

10

15

20

25

30

-43-

known for treating and/or alleviating symptoms of the condition mediated by Tie-2. The additional drug can be administered simultaneously with the compound of the invention, or sequentially. For example, the Tie-2 inhibitor can be administered in combination with another anticancer agent, as is known in the art. Additional therapies which may be coadministered would include, for example, radiation therapy, ultraviolet irradiation, hyperthermia, laser irradiation, targeted radionuclides and neutron bombardment.

The invention further provides pharmaceutical compositions comprising one or more of the Tie-2 inhibitors described above. Such compositions comprise a therapeutically (or prophylactically) effective amount of one or more Tie-2 binding inhibitors, as described above, and a pharmaceutically acceptable carrier or excipient. Suitable pharmaceutically acceptable carriers include, but are not limited to, saline, buffered saline, dextrose, water, glycerol, ethanol, and combinations thereof. The carrier and composition can be sterile. The formulation should suit the mode of administration.

Suitable pharmaceutically acceptable carriers include but are not limited to water, salt solutions (e.g., NaCl), alcohols, gum arabic, vegetable oils, benzyl alcohols, polyethylene glycols, gelatin, carbohydrates such as lactose, amylose or starch, cyclodextrin, magnesium stearate, talc, silicic acid, viscous paraffin, perfume oil, fatty acid esters, hydroxymethylcellulose, polyvinyl pyrolidone, etc. The pharmaceutical preparations can be sterilized and if desired, mixed with auxiliary agents, e.g., lubricants, preservatives, stabilizers, wetting agents, emulsifiers, salts for influencing osmotic pressure, buffers, coloring, flavoring and/or aromatic substances and the like which do not deleteriously react with the active compounds.

The composition, if desired, can also contain minor amounts of wetting or emulsifying agents, or pH buffering agents. The composition can be a liquid solution, suspension, emulsion, tablet, pill, capsule, sustained release formulation, or powder. The composition can be formulated as a suppository, with traditional binders and carriers such as triglycerides. Oral formulation can include standard carriers such as pharmaceutical grades of mannitol, lactose, starch, magnesium stearate, polyvinyl pyrrolidinone, sodium saccharine, cellulose, magnesium carbonate, etc.

5

10

15

20

25

30

-44-

PCT/US01/08853

The composition can be formulated in accordance with the routine procedures as a pharmaceutical composition adapted for intravenous administration to human beings. Typically, compositions for intravenous administration are solutions in sterile isotonic aqueous buffer. Where necessary, the composition may also include a solubilizing agent and a local anesthetic to ease pain at the site of the injection. Generally, the ingredients are supplied either separately or mixed together in unit dosage form, for example, as a dry lyophilized powder or water free concentrate in a hermetically sealed container such as an ampoule or sachet indicating the quantity of active agent. Where the composition is to be administered by infusion, it can be dispensed with an infusion bottle containing sterile pharmaceutical grade water, saline or dextrose/water. Where the composition is administered by injection, an ampoule of sterile water for injection or saline can be provided so that the ingredients may be mixed prior to administration.

The pharmaceutical compositions of the invention can also include an agent which controls release of the Tie-2 inhibitor compound, thereby providing a timed or sustained release composition.

The Tie-2 inhibitor can be administered subcutaneously, intravenously, parenterally, intraperitoneally, intradermally, intramuscularly, intraocularly, topically, enteral (e.g., orally), rectally, nasally, buccally, sublingually, vaginally, by inhalation spray, by drug pump or via an implanted reservoir in dosage formulations containing conventional non-toxic, physiologically acceptable carriers or vehicles. The preferred method of administration is by oral delivery. The form in which it is administered (e.g., syrup, elixir, capsule, tablet, solution, foams, emulsion, gel, sol) will depend in part on the route by which it is administered. For example, for mucosal (e.g., oral mucosa, rectal, ocular mucosa, intestinal mucosa, bronchial mucosa) administration, nose drops, aerosols, inhalants, nebulizers, eye drops or suppositories can be used. The compounds and agents of this invention can be administered together with other biologically active agents, such as analgesics, anti-inflammatory agents, anesthetics and other agents which can control one or more symptoms or causes of a Tie-2 dependent condition.

-45-

PCT/US01/08853

In a specific embodiment, it may be desirable to administer the agents of the invention locally to a localized area in need of treatment; this may be achieved by, for example, and not by way of limitation, local infusion during surgery, topical application, transdermal patches, by injection, by means of a catheter, by means of a suppository, or by means of an implant, said implant being of a porous, non-porous, or gelatinous material, including membranes, such as sialastic membranes or fibers. For example, the agent can be injected into the joints.

EXAMPLES

10

15

20

25

30

5

Example 1 Protein Purification

(His)₆Tie-2 802-1124, D964N, which contains a TEV protease cleavage peptide, was expressed recombinantly by baculovirus infection of SF-9 cells. Cells were lysed in a buffer containing 20 mM Tris pH 8.0, 137 mM NaCl, 10 % glycerol, 1 % Triton X-100, 1 mM ADP, 5 mM MgCl₂ and complete protease inhibitor, EDTAfree cocktail from Boehringer Mannhein.. The ligand ADP/Mg⁺⁺ was maintained at this concentration in buffers of all subsequent purification steps. The cell lysate was centrifuged and the supernatant was applied to a Ni⁺⁺ chelating sepharose column which had been equilibrated in 50 mM HEPES, pH 7.5, 0.3 M NaCl. Tie-2 was eluted by competition with 100 mM imidazole. The eluted (His)₆ Tie-2 was digested with Tev protease and dialyzed against 50 mM HEPES, pH 7.5, 0.25 M NaCl, 5 mM DTT. The dialyzed sample was centrifuged to remove any precipitated protein, and Tie-2 was bound to a MonoQ anion exchange column and eluted with a linear 20 column volume gradient of 0.025-0.2 M NaCl. Typically, differences in the monodispersity of early eluting verses late eluting fractions could be detected using Dynamic Light Scattering (DLS). Sample purity was assessed with SDS-PAGE, native PAGE, and LC/MS total mass analysis. Fractions with similar DLS characteristics were pooled and concentrated to greater than 2 mg/ml using ultrafiltration at -80 °C. The ultracentrifuged samples were used in crystallographic

-46-

PCT/US01/08853

experiments described below. Table I lists a range of conditions suitable for crystallization.

Example 2:

5

10

15

20

30

I. Diphosphorylated Tie-2 802-1124

A. Crystallization Conditions:

Tie-2 802-1124 (2PO₄) protein was crystallized in a sitting or hanging drop geometry using a vapor diffusion method. The protein concentration was 5 mg/ml, and the well solution was 10% PEG 6,000; 0.1 M HEPES, pH 7.5; 5% MPD (2-methyl-2,4-pentanediol). Drops were set up using equal volumes of protein and well solution containing 500 μ M inhibitor. Crystals routinely grew to 0.4 mm x 0.1 mm x 0.01 mm in about a week. Crystals were of the space group P2(1)2(1)2(1) with unit cell dimensions a = 54.320 Å, b = 75.872 Å, c = 78.143 Å, and $\alpha = \beta = \gamma = 90.0^{\circ}$. Table I list a range of conditions which are suitable for crystallization.

B. Data Collection

Data on ligand bound crystals were collected on a Rigaku RU300 rotating anode generator running at 50kV 150 mA equipped with an R-Axis II phosphoimage plate detector. X-rays were monochromatized by long mirrors and filtered with a 0.0067µm Nickel filter. Data were processed and reduced with DENZO and SCALEPACK (Minor, W. 1993). Data were collected to 3.5 Å resolution.

25 C. Data Processing

Programs in the CCP4 suite (Collaborative Computational Project, Number 4 1994) (tomtz, trunc, cad and ecalc) were used to format and process the data for molecular replacement. The molecular replacement program AMORE (Navaza, J. 1994) was used successfully to find phases for the data set using an initial model. The initial model was composed of the carboxy-terminal portion (residues 566-575 and 592-672) of the FGFR kinase domain trimmed back to poly-Alanine (PDB accession number 1FGK). A second round of AMORE with a more complete model (residues

PCT/US01/08853

464-485, 491-500, 505-575 and 592-762) was also performed to confirm the phasing solution.

D. Optimization of Model

Several round of least-squared minimization using CNS (Brunger, A.T. et al., 1998) alternating with manual rebuilding, using the graphics program O, version 6.2.1 (Jones, A., 1997; Kleywegt G. J., 1995) were performed iteratively to improve the model while comparing it to electron density maps generated after each round with coefficients 2fo-fc contoured at a level of 1.0 sigma.

10

30

5

WO 01/72778

II. Tie-2 (D964N) 802-1124 (SEQ ID NO 2)

A. Crystallization Conditions

Purified Tie-2 (D964N) 802-1124 protein was crystallized in a sitting drop geometry using the vapor diffusion method. The protein concentration was 2.5 mg/ml, and the well solution was 1.0 to 1.5 M ammonium sulfate, 0.1M MES, pH 6.5, 5% dioxane (1,4-dioxane). Drops were set up using equal volumes of protein and well solution containing 100-300 μM inhibitor. Crystals routinely grew to 0.3 mm x 0.05 mm x 0.01 mm in about 2-3 days. Crystals of Tie-2/inhibitor I were of the space group C222(1) with unit cell dimensions a = 75.195 Å, b = 116.287 Å, c = 95.060 Å and α = β = γ - 90.0°. Crystals of the Tie-2/inhibitor II, III or IV complex were of the space group P42212 with unit cell dimensions a = b = 86.0 Å, c = 112.0 Å and α = β = γ - 90.0°.

25 B. Data Collection

Data on a ligand-bound crystal (Tie-2 (D964N) 802-1124) complexed with inhibitors I, II, III, or IV were collected at the beamline X25 at Brookhaven National Laboratory (Upton, NY) equipped with the Brandeis B4, CCD detector. Data were processed and reduced with DENZO and SCALEPACK (Minor, W. 1993). Data for the Tie-2/inhibitor I complex were collected complete to 2.75 Å resolution, with higher resolution reflections visible to 2.0 Å resolution.

C. Data Processing

Programs in the CCP4 suite (Collaborative Computational Project, Number 4 1994) (tomtz, trunc, cad and ecalc) were used to format and process the data for molecular replacement. The molecular replacement program AMORE (Navaza, J. 1994) was used successfully to find phases for the data set using an initial model. The initial model was composed of the a conservative portion of the FGFR kinase domain (Tie2 residue numbering 818-830, 841-842, 850-857, 866-890, 900-916, 935-981, 1001-1093). The model, mostly poly-Alanine, was trimmed of loop regions which diverged upon superposition of five tyrosine kinase structures (IRK, HCK, SRC, FGFR, and LCK). In addition this model included only those side-chain residues in positions where an identical side-chain was found in the FGFR model.

D. Optimization of Model

Several round of least-squared minimization using CNS (Brunger, A. T. et al., 1998) alternating with manual rebuilding, using the graphics program O, version 6.2 (Jones, A., 1997; Kleywegt G. J., 1995) were performed to iteratively improve the model while comparing it to two electron density maps: one generated with coefficients 2fo-fc contoured at a level of 1.0 sigma and the other generated with coefficients fo-fc contoured at a level of 1.5 sigma.

20

25

5

10

15

E. Inhibitor Docking

Inhibitor I was found to be bound to the active site. It was initially docked by hand in O by visually inspecting the electron density maps and adjusting the torsion angles of the inhibitor. Parameter and topology files were generated for CNS using the X-util program xplo2d (Kleywegt G. J. and Jones, T.A. 1997) and modified slightly to properly model chlorine in the inhibitor.

III. Tie-2 (D964N) 802-1124 (SEQ ID NO 2)

A. Crystallization Conditions

The protein (construct Tie-2D964N) was provided in a buffer containing 25mM HEPES, pH 7.5, 50 mM NaCl, 5 mM MgCl2, 1 mM ADP and 5 mM DTT. The protein concentration was about 2.3 mg/ml as determined with a Coomassie Plus assay, BSA as standard.

The inhibitor III was dissolved in DMSO to give a 50 mM stock solution. Stock solution was added to the protein solution for a final inhibitor concentration of 2mM. Crystallization conditions were screened with Hampton Screen *Crystal screen*, *Crystal screen*, *Membfac, Natrix* and *PEG/ion screen* at room temperature and 4°C. Crystals grew with precipitation buffer: 20% PEG 3350, 0,2M tri-Lithium Citrat pH 8,1 (Hampton Screen *PEG/ion screen*, Nr. 45) sitting or hanging drop: 750μl buffer in reservoir in the drop typically 1μl - 2μl protein and 1μl - 2μl reservoir solution were mixed.

Addition of the following additives (10% by volume to the drop) also yielded crystals:

Add. Screen I	Nr.:01	0.1M Ba-Chloride
Add. Screen I	Nr.:03	0.1M Ca-Chloride
Add. Screen I	Nr.:06	0.1M Mg-Chloride
Add. Screen I	Nr.:16	0.1M Trimehylamine
Add. Screen I	Nr.:22	30% Ethanol
Add. Screen II	Nr.:08	30% Xylitol
Add. Screen II	Nr.:13	30% 1,5Diaminopentan-dihydrochloride
Add. Screen II	Nr.:14	30% 1,8 Diaminooctane
Add. Screen II	Nr.:17	0.1M Hexaaminocobalt-trichloride
Add. Screen III	I Nr.:02	1.0M Cesium-chloride

5

10

Add. Screen III Nr.:04	1.0M Lihium-chloride
Add. Screen III Nr.:06	0.5M Sodium-flouride
Add. Screen III Nr.:16	40% Acetonitrile
Add. Screen III Nr.:18	40% n-Propanol
Add. Screen III Nr.:19	5% Ethyl-acetate
Add. Screen III Nr.:20	40% Acetone
Add. Screen III Nr.:21	2,5% Dichlormethane
Add. Screen III Nr.:22	7% n-Butanol
Add. Screen III Nr.:24	0.1M 1,4 Dithio-DL-threitol

B. Data collection:

5

10

Data were measured at the beam line BW 6 of the Max-Planck-Society at DESY, Hamburg.

The crystals were shock cooled to 100 K; cryobuffer was crystallization buffer plus 20 – 30 % glycerol. 213 frames with delta phi=0.25 degrees were collected with a MAR CCD detector, at a crystal detector distance of 120mm and a wavelength of 1.072Å.

Crystals are of a tetragonal space group with unit cell dimensions a=b=86.0 Å and c=112.0 Å. The cell dimensions of different crystals vary (for a and b between 85 and 87Å, for c between 97 and 113). Extinctions indicate the space group P42212 which was confirmed by molecular replacement.

Table II: Crystallization conditions for Tie-2/inhibitor complexes.

Condition	Tie-2 802-1124 D964N	Tie-2 802-1124 (diphosphorylated)
Protein	2.5 mg/mL optimal	5 mg/mL optimal
concentration	range 1.5 – 4 mg/mL	range 2.5 – 10 mg/mL
	limits 1.0 – 5.0 mg/mL	
Buffer	100 mM MES optimal	100 mM HEPES optimal
concentration	range 50–250 mM	Range 50-150 mM
	Limits 20–300 mM	Limits 20-300 mM
pН	6.5 optimal	7.5 optimal
	range 5.5 – 7.5	range 7.0 – 7.7
		limits 6.5 – 8.0
Buffer Identity	Buffers capable of buffering in a similar pH range expected to give similar results	(same)
Precipitant	(NH ₄) ₂ SO ₄	10% PEG 6000 optimal
	Range 1.0 – 1.5 M	conc. range 5-15%
	Limits 0.7 – 1.8 M	conc. limits $1-20\%$
		MW range 4000 – 8000
		MW limits may be much wide
Additive parameters	5% 1,4-dioxane optimal	5% MPD (2-Me-2,4-pentanedi
	range $0 - 10\%$ (higher concentrations etch the plastic vessel in which the experiment is done; higher concentrations may be possible in a resistant vessel)	optimal range 0 – 10%
	1,3-dioxane, similar molecules, or mixtures in various ratios should also give similar results	

	_	1	
_	J	L	-

		,
Additive identities	Examples which have been successfully added:	(same)
	1,5-diaminopentane	
	Glycerol (1-10%) Ethylene glycol (1-10%)	
	Spermidine (10 – 300 mM)	
	Combinations, in varying ratios, may give similar results	
Drop volumes and ratios	2 μL protein + 2 μL well solution optimal	(same)
	Total volume range: up to 200 µL, assuming a sitting geometry for larger volumes	
	Volume Ratio range: 1 part protein to 0.5 – 2.0 parts well solution	
Well volume (for 4	Range 500 – 1000 μL	(same)
μL crystallization drop)	Limits 250 – large volume (limited by the distance between the drop and the surface of the well solution allowed by the vessel geometry, see below)	
Drop – well	2 cm optimal	(same)
solution distance	Range 1-4 cm	
	Limits: 0.1 cm - 5 cm	
Temperature	room temp optimal (22 - 25 °C)	(same)
	limits 17 – 30 °C	
Ligands	ADP/Mg ²⁺ and analogs	(same)
,	Inhibitors: inhibitors I-IV, analogs	
	Expect similar results from ligands that bind reversibly under crystallization conditions with K _d values < 1 mM	

Constructs	Variants in amino acid sequence that crystallize in the same space group and unit cell should be considered equivalent	(same)
	Additional constructs would include deletion of unstructured termini as determined by crystal structure of this construct. For example, deletion of the C-terminal 24 residues (leaving 802-1100 has been prepared, which is likely to yield similar results	
Posttranslational modification	Variants in posttranslational modification that crystallize in the same space group and unit cell should be considered equivalent	2 phosphate forms have been crystallized. This protein contone phosphate on either Y897 Y899 and one on one of five T residues, at amino acids 1012, 1024, 1040, and 1048
		Other phosphorylated forms m give similar results.
		A single phosphate species has observed in which the phospha on either Y897 or Y899 has all been isolated.
		In addition, 3 and 4 phosphate species have been isolated whi may crystallize.
Space group	C222(1)	P2(1)2(1)2(1)
Unit cell	a = 75.195 Å, b = 116.287 Å, c = 95.060 Å	a = 54.320 Å, b = 75.872 Å, c 78.143 Å
	Variations of ± 2% should be considered equivalent	Variations of ± 2% should be considered equivalent
	Angles: $a = b = c = 90^{\circ}$	Angles: $a = b = c = 90^{\circ}$
	Observed variations of ± 1% should be considered equivalent	Observed variations of ± 1% should be considered equivale

WO 01/72778 PCT/US01/08853

Other crystallization	Low gravity	(same)
tricks that should give at least equivalent results	Temperature oscillations	
	Presence of cryoprotectant (15-25% glycerol added before data collection)	
	Variations in crystallization tray geometry	
	Data collection temperature (range: minus 180 to plus 25 °C)	

REFERENCES:

- Brunger, A.T., Adams, P. D., Clore, G. M., DeLano, W. L. Gros, P. Grosse-Kunstleve, R. W., Jiang, J-S., Kuszewski, J., Nigels, M., Pannu, N. S., Read, R. J., Rice, L. M., Simonson, T., and Warren, G. L. (1998) *Acta Cryst.*, *D54*, 905-921.
- Collaborative Computational Project, Number 4 (1994) The CCP4 Suite: Programs for Protein Crystallography. *Acta Crys.t D50*, 760-763.
 - Jones, A.T and Kjeldgaard, M. (1997) Methods in Enzymology 277, 173-208.
 - Kleywegt G. J. and Jones, T.A. (1997) Methods in Enzymology 277, 525-545.
 - Kleywegt G. J., (1995) ESF/CCP4 Newsletter 31, 45-50.
 - Minor, W. XDISPLAYF program, Purdue University (1993)
- 20 Navaza, J. (1994) Acta Cryst. A50, 157-163.

WO 01/72778 PCT/US01/08853

-55-

Example 3: In Vitro Potency Test of Tie-2 Inhibitors

The *in vitro* potency of compounds in inhibiting these protein kinases may be determined by the procedures detailed below.

The potency of compounds can be determined by the amount of inhibition of the phosphorylation of an exogenous substrate (e.g., synthetic peptide (Z. Songyang *et al.*, *Nature*. 373:536-539) by a test compound relative to control.

Human Tie-2 Kinase Production and Purification

The coding sequence for the human Tie-2 intra-cellular domain (aa775-1124) was generated through PCR using cDNAs isolated from human placenta as a template. A poly-His₆ sequence was introduced at the N-terminus and this construct was cloned into transfection vector pVL 1939 at the Xba 1 and Not 1 site. Recombinant BV was generated through co-transfection using the BaculoGold Transfection reagent (PharMingen). Recombinant BV was plaque purified and verified through Western analysis. For protein production, SF-9 insect cells were grown in SF-900-II medium at 2 x 106/ml, and were infected at MOI of 0.5. Purification of the His-tagged kinase used in screening was analogous to that described for KDR.

EGFR Tyrosine Kinase Source

5

10

15

20

25

30

EGFR was purchased from Sigma (Cat # E-3641; 500 units/50 1) and the EGF ligand was acquired from Oncogene Research Products/Calbiochem (Cat # PF011-100).

Enzyme Linked Immunosorbent Assay (ELISA) For PTKs

Enzyme linked immunosorbent assays (ELISA) were used to detect and measure the presence of tyrosine kinase activity. The ELISA were conducted according to known protocols which are described in, for example, Voller, *et al.*, 1980, "Enzyme-Linked Immunosorbent Assay," In: *Manual of Clinical Immunology*, 2d ed., edited by Rose and Friedman, pp 359-371 Am. Soc. of Microbiology, Washington, D.C.

The disclosed protocol was adapted for determining activity with respect to a specific PTK. For example, preferred protocols for conducting the ELISA experiments is provided below. Adaptation of these protocols for determining a

compound's activity for other members of the receptor PTK family, as well as non-receptor tyrosine kinases, are well within the abilities of those skilled in the art. For purposes of determining inhibitor selectivity, a universal PTK substrate (e.g., random copolymer of poly(Glu₄ Tyr), 20,000-50,000 MW) was employed together with ATP (typically 5 µM) at concentrations approximately twice the apparent Km in the assay.

The following procedure was used to assay the inhibitory effect of compounds of this invention on Tie-2 tyrosine kinase activity:

Buffers and Solutions:

10 PGTPoly (Glu,Tyr) 4:1

5

Store powder at -20°C. Dissolve powder in phosphate buffered saline (PBS) for 50mg/ml solution. Store 1ml aliquots at -20°C. When making plates dilute to 250 g/ml in Gibco PBS.

Reaction Buffer: 100mM Hepes, 20mM MgCl₂, 4mM MnCl₂, 5mM DTT,

15 0.02%BSA, 200μM NaVO₄, pH 7.10

ATP: Store aliquots of 100mM at -20°C. Dilute to 20μM in water

Washing Buffer: PBS with 0.1% Tween 20

Antibody Diluting Buffer: 0.1% bovine serum albumin (BSA) in PBS

TMB Substrate: mix TMB substrate and Peroxide solutions 9:1 just before use or use

20 K-Blue Substrate from Neogen

Stop Solution: 1M Phosphoric Acid

Procedure

- 1. Plate Preparation:
- Dilute PGT stock (50mg/ml, frozen) in PBS to a 250μg/ml. Add 125μl per well of Corning modified flat bottom high affinity ELISA plates (Corning #25805-96). Add 125μl PBS to blank wells. Cover with sealing tape and incubate overnight 37°C. Wash 1x with 250μl washing buffer and dry for about 2hrs in 37°C dry incubator. Store coated plates in sealed bag at 4°C until used.

WO 01/72778 PCT/US01/08853

-57-

- 2. Tyrosine Kinase Reaction:
- -Prepare inhibitor solutions at a 4x concentration in 20% DMSO in water.
- -Prepare reaction buffer
- -Prepare enzyme solution so that desired units are in 50μl, e.g. for KDR make to 1 ng/ 1 for a total of 50ng per well in the reactions. Store on ice.
 - -Make 4x ATP solution to 20µM from 100mM stock in water. Store on ice
 - -Add 50µl of the enzyme solution per well (typically 5-50 ng enzyme/well depending on the specific activity of the kinase)
- 10 -Add 25μl 4x inhibitor
 - -Add 25µl 4x ATP for inhibitor assay
 - -Incubate for 10 minutes at room temperature
 - -Stop reaction by adding 50µl 0.05N HCl per well
 - -Wash plate
- **Final Concentrations for Reaction: 5μM ATP, 5% DMSO
 - 3. Antibody Binding
 - -Dilute 1mg/ml aliquot of PY20-HRP (Pierce) antibody (a phosphotyrosine antibody) to 50ng/ml in 0.1% BSA in PBS by a 2 step dilution (100x, then 200x)
- -Add 100μl Ab per well. Incubate 1 hr at room temp. Incubate 1 hr at 4C.
 - -Wash 4x plate
 - 4. Color reaction
 - -Prepare TMB substrate and add 100µl per well
- 25 -Monitor OD at 650nm until 0.6 is reached
 - -Stop with 1M Phosphoric acid. Shake on plate reader.
 - -Read OD immediately at 450nm

Optimal incubation times and enzyme reaction conditions vary slightly with enzyme preparations and are determined empirically for each lot.

WO 01/72778 PCT/US01/08853 -58-

Example 4: Cellular Assay for Determining the Potency of Tie-2 Inhibitors

The following cellular assay can be used to determine the potency of a Tie-2 inhibitor.

5 "NIH-3T3/hTEK Cell line:

A retroviral expression vector containing the full length Tie-2 cDNA, LNCX6 h-TEK, was kindly provided to us by Dr. Kevin Peters. A tumorigenic subline of NIH 3T3 cells was transfected with 10 ig of LNCX6 h-TEK by calcium phosphate precipitation method and selected with 400 ig/ml neomycin. Individual clones were isolated and analyzed for the presence of Tie-2 protein by Western blotting. Maximum expression of Tie-2 was observed in clone #67. Expression of Angiopoietin 1 message has been shown using PCR and an autocrine loop is revealed in the presence of vanadate

Cellular Tie-2 assay:

Tie-2 cellular autophosphorylation was measured using the NIH-3T3/hTEK (hTEK) cell line. Cells were seeded in 96 well plates overnight. The media was removed and cells treated with inhibitor for 20 minutes and phosphotase inhibitor NaVO₃ (2mM) for 15 more minutes. Cells were lysed with RIPA buffer and lysates were immunoprecipitated using a specific a-Tie-2 monoclonal antibody (KP33, provided by Dr. Kevin Peters) and the IP'd protein run on SDS PAGE. The phosphotyrosine level on Tie2 protein were then determined by a-phosphotyrosine antibodies (4G10, Upstate Biotechnology) on Western blots. Films were scanned and % inhibition as compared to untreated control was determined."

25 EQUIVALENTS

While this invention has been particularly shown and described with references to preferred embodiments thereof, it will be understood by those skilled in the art that various changes in form and details may be made therein without departing from the scope of the invention encompassed by the appended claims.

10

15

WO 01/72778 PCT/US01/08853 -59-

CLAIMS

What is claimed is:

15

- A crystalline polypeptide, said polypeptide comprising the catalytic domain of
 a Tie-2 protein.
 - 2. The crystalline polypeptide of Claim 1 wherein the polypeptide comprises the catalytic domain of human Tie-2.
- 10 3. A crystalline polypeptide-ligand complex, said polypeptide comprising the catalytic domain of a Tie-2 protein.
 - 4. The crystalline polypeptide/ligand complex of Claim 3 wherein the polypeptide comprises the catalytic domain of a mammalian Tie-2.
 - 5. The crystalline polypeptide/ligand complex of Claim 4 wherein the mammalian Tie-2 protein is human Tie-2.
- 6. The crystalline polypeptide/ligand complex of Claim 5 wherein the polypeptide comprises amino acids 802-1124 of SEQ ID NO: 1.
 - 7. The crystalline polypeptide/ligand complex of Claim 6 wherein the ligand is of the formula:

- 8. The crystalline polypeptide/ligand complex of Claim 7 having unit cell parameters a is about 96 Å, b is about 118 Å, c is about 78 Å and $\alpha = \beta = \gamma = 90^{\circ}$.
- 9. The crystalline polypeptide/ligand complex of Claim 6 wherein the ligand is of the formula:

- 10 10. The crystalline polypeptide/ligand complex of Claim 9 having unit cell parameters a and b are about 86.0 Å, c is about 112.0 Å and $\alpha = \beta = \gamma = 90$ °.
 - 11. The crystalline polypeptide/ligand complex of Claim 6 wherein the ligand is of the formula:

The crystalline polypeptide/ligand complex of Claim 11 having unit cell 12. parameters a and b are about 86.0 Å, and c is about 112.0 Å and $\alpha = \beta = \gamma =$ 90°.

5

The crystalline polypeptide/ligand complex of Claim 6 wherein the ligand is of 13. the formula:

10

The crystalline polypeptide/ligand complex of Claim 13 having unit cell 14. parameters a and b are about 86.0 Å, c is about 112.0 Å and $\alpha = \beta = \gamma = 90^{\circ}$.

- 15. A method of determining the three dimensional structure of a first polypeptide comprising the catalytic domain of a Tie-2 protein, said method comprising the steps of:
 - (a) obtaining a crystal of the first polypeptide comprising the catalytic domain of Tie-2;
 - (b) obtaining x-ray diffraction data for said crystal; and
 - (c) solving the crystal structure of said crystal using the atomic coordinates of a second polypeptide and said x-ray diffraction data, said second polypeptide comprising the catalytic domain of a Tie-2 protein.

10

5

- 16. The method of Claim 15 wherein the crystal of the first polypeptide comprises the first polypeptide complexed with a ligand.
- 17. The method of Claim 15 wherein the first polypeptide comprises the catalytic domain of a mammalian Tie-2 protein.
 - 18. The method of Claim 17 wherein the first polypeptide and the second polypeptide, independently, comprise the catalytic domain of a human Tie-2 protein.

- 19. The method of Claim 18, wherein the first polypeptide comprises the catalytic domain of wild type human Tie-2 and the second polypeptide comprises the catalytic domain of wild type human Tie-2.
- 25 20. The method of Claim 19, wherein the first polypeptide comprises the catalytic domain of wild type human Tie-2.
 - 21. A method of identifying a compound which is an inhibitor of a Tie-2 protein, said method comprising the steps of
- obtaining the atomic coordinates of a crystal of a polypeptide comprising the catalytic domain of a Tie-2 protein;

- (b) using said atomic coordinates to define the active subsites of Tie-2; and
- (c) identifying a compound which binds to the one or more active subsite; wherein the compound which bind to the active subsite or sites is an inhibitor of a Tie-2 protein.

5

- 22. The method of Claim 21, further comprising the step of
 - (d) assessing the ability of the compound identified in step (c) to inhibit Tie-2.
- 10 23. The method of Claim 21 wherein the Tie-2 protein is a mammalian protein.
 - 24. The method of Claim 22 wherein the Tie-2 protein is a human protein.
 - 25. The method of Claim 24, wherein the Tie-2 protein is wild type human Tie-2.

- 26. The method of Claim 21 wherein said crystal further comprises a ligand bound to said catalytic domain.
- The method of Claim 24 wherein the polypeptide comprises amino acids 802-1124 of SEQ ID NO: 1.
 - 28. The method of Claim 24, wherein the ligand is of the formula:

- 29. The method of Claim 28, wherein the crystal has unit cell parameters wherein a is about 96 Å, b is about 118 Å, c is about 78 Å and $\alpha = \beta = \gamma = 90^{\circ}$.
- 5 30. The method of Claim 24, wherein the ligand is of the formula:

- 31. The method of Claim 30, wherein the crystal has unit cell parameters wherein a and b are about 86.0 Å, c is about 112.0 Å and $\alpha = \beta = \gamma = 90^{\circ}$.
- The method of Claim 24, wherein the ligand is of the formula:

33. The method of Claim 32, wherein the crystal has unit cell parameters wherein

a and b are about 86.0 Å, and c is about 112.0 Å and $\alpha = \beta = \gamma = 90^{\circ}$.

The method of Claim 24, wherein the ligand is of the formula: 34.

5

The method of Claim 34, wherein the crystal has unit cell parameters wherein 35. a and b are about 86.0 Å, c is about 112.0 Å and $\alpha = \beta = \gamma = 90^{\circ}$.

10

A method of identifying a compound which is a potential inhibitor of a Tie-2 36. protein, said method comprising the step of designing a compound that will interact with one or more subsites in the catalytic domain of the Tie-2 protein, based upon the crystal structure coordinates of a polypeptide comprising the catalytic domain; wherein said compound is identified as a potential inhibitor of the Tie-2 protein.

15

The method of Claim 36 wherein the Tie-2 protein is a mammalian Tie-2 37. protein.

20

38.

39.

The method of Claim 38, wherein the Tie-2 protein is wild type human Tie-2.

The method of Claim 37 wherein the Tie-2 protein is a human Tie-2 protein.

WO 01/72778 PCT/US01/08853 -66-

- 40. The method of Claim 39 wherein the polypeptide comprises amino acids 802-1124 of SEQ ID NO: 1.
- The method of Claim 38 wherein the crystal structure coordinates are set forth in Fig. 3.
 - 42. The method of Claim 38 wherein the crystal structure coordinates are set forth in Fig. 4.
- 10 43. The method of Claim 38 wherein the crystal structure coordinates are set forth in Fig. 5.

15

- The method of Claim 38 wherein the crystal structure coordinates are set forth in Fig. 6.
- 45. The method of Claim 38 wherein the compound interacts with one or more of subsites 1 to 9.
- The method of Claim 45 wherein the compound interacts with two or more of subsites 1 to 9.
 - 47. The method of Claim 46 wherein the compound interacts with three or more of subsites 1 to 9.
- 25 48. The method of Claim 46 wherein the compound interacts with a set of subsites comprising subsite 1 and subsite 2.
 - 49. The method of Claim 47 wherein the compound interacts with a set of subsites comprising subsite 1, subsite 2 and subsite 3.

10

25

-67-

PCT/US01/08853

- 50. The method of Claim 47 wherein the compound interacts with a set of subsites comprising subsite 1, subsite 2 and subsite 8.
- 5 51. The method of Claim 47 wherein the compound interacts with a set of subsites comprising subsite 1, subsite 2, subsite 3 and subsite 8.
 - 52. The method of Claim 47 wherein the compound interacts with a set of subsites comprising subsite 1, subsite 4 and subsite 5.
 - 53. The method of Claim 47 wherein the compound interacts with a set of subsites comprising subsite 1, subsite 2, subsite 7 and subsite 8.
- The method of Claim 47 wherein the compound interacts with a set of subsites comprising subsite 1, subsite 2, subsite 3, subsite 7 and subsite 8.
 - The method of Claim 47 wherein the compound interacts with a set of subsites comprising subsite 1, subsite 2, subsite 3, subsite 7 and subsite 8.
- The method of Claim 47 wherein the compound interacts with a set of subsites comprising subsite 1, subsite 2, subsite 4, subsite 6 and subsite 8.
 - 57. The method of Claim 47 wherein the compound interacts with a set of subsites comprising subsite 1, subsite 2, subsite 3, subsite 4, subsite 6 and subsite 8.
 - 58. The method of Claim 47 wherein the compound interacts with a set of subsites comprising subsite 1, subsite 2, subsite 3, subsite 4, subsite 6 and subsite 8.
 - 59. A Tie-2 inhibitor comprising two or more of the following:
- 30 (a) a hydrogen bond donor positioned to interact with Glu 903 of human Tie-2;

(p)

Tie-2;

30

PCT/US01/08853

		-00-
	(b)	a hydrogen bond acceptor positioned to interact with Ala 905 of human
	(c)	Tie-2; a hydrogen bond donor positioned to interact with Ala 905 of human
		Tie-2;
5	(d)	a hydrophobic moiety positioned to interact with one or more of Ile
		830, Val 838, Ala 853, Ile 886, Ile 902, Tyr 904, Ala 905 and Leu 971
		of human Tie-2;
	(e)	a hydrogen bond donor or positively charged functional group
		positioned to interact with Asp 912 of human Tie-2;
10	(f)	a hydrogen bond donor or hydrogen bond acceptor postioned to interact
		with Asn 909 of human Tie-2;
	(g)	a hydrophobic moiety positioned to interact with one or more of Val
		838, Lys 855, Ile 886, Ile 902, Leu 971 and Ala 981 of human Tie-2;
	(h)	a hydrogen bond acceptor or negatively charged functional group
15		positioned to interact with Lys 855 of human Tie-2;
	(i)	a hydrogen bond acceptor positioned to interact with Asp 982 of
		human Tie-2;
	(j)	a hydrogen bond acceptor positioned to interact with Phe 983 of human
		Tie-2;
20	(k)	a hydrophobic moiety positioned to interact with one or more of Leu
		873, Leu 876, Ile 885, Ile 886, Leu 888, Leu 900, Ile 902, Ala 981 and
		Phe 983 of human Tie-2;
	(1)	a hydrogen bond donor or positively charged functional group
	•	positioned to interact with Asp 982 of human Tie-2;
25	(m)	a hydrogen bond donor positioned to interact with Ile 886 of human
		Tie-2;
	(n)	a hydrogen bond donor positioned to interact with Leu 768 of human
	• •	Tie-2;
	(o)	a hydrogen bond acceptor positioned to interact with Gly 831 of human
	` '	

a hydrogen bond donor or positively charged functional group

•			positioned to interact with Glu 832 of human Tie-2;
		(q)	a hydrogen bond acceptor or negatively charged functional group
			positioned to interact with Lys 840 of human Tie-2;
		(r)	a hydrogen bond acceptor or negatively charged functional group
5			positioned to interact with Lys 916 of human Tie-2;
		(s)	a hydrogen bond acceptor or negatively charged functional group
			positioned to interact with Arg 968 of human Tie-2;
		(t)	a hydrogen bond donor positioned to interact with Arg 968 of human
			Tie-2.
10			
	60.	The T	Γie-2 inhibitor of Claim 59 comprising (b) and (d).
	61.	The 7	Tie-2 inhibitor of Claim 59 comprising (d) and at least one of (a), (b) and
		(c).	
15			
	62.	The T	Tie-2 inhibitor of Claim 59 comprising (d) and at least two of (a), (b) and
		(c).	
	63.	The T	Γie-2 inhibitor of Claim 62 further comprising at least one of (e) and (f).
20			
	64.	The	Γie-2 inhibitor of Claim 62 further comprising (g).
	65.	The	Γie-2 inhibitor of Claim 63 further comprising (g).
25	66.	The T	Γie-2 inhibitor of Claim 64 further comprising (k).
23	00.	1110	
	67.	The T	Γie-2 inhibitor of Claim 65 further comprising (k).
	,		
	68.	The T	Tie-2 inhibitor of Claim 62 further comprising at least one of (i) and (j).
30			
	69.	The '	Tie-2 inhibitor of Claim 63 further comprising at least one of (i) and (j).

10

20

25

- 70. The Tie-2 inhibitor of Claim 66 further comprising at least one of (i) and (j).
- 71. The Tie-2 inhibitor of Claim 67 further comprising at least one of (i) and (j).
- 5 72. The Tie-2 inhibitor of Claim 59, wherein the inhibitor has a Ki of at least about 1 mM.
 - 73. The Tie-2 inhibitor of Claim 59, wherein the inhibitor has a Ki of at least about $100 \mu M$.
- 74. The Tie-2 inhibitor of Claim 59, wherein the inhibitor has a Ki of at least about $10 \mu M$.
- 75. The Tie-2 inhibitor of Claim 59, wherein the inhibitor selectively binds Tie-2 receptors.
 - 76. A method of treating a Tie-2 dependent condition in a patient comprising the step of administering to the patient a therapeutically effective amount of a Tie-2 inhibitor of Claim 59.
 - 77. The method of Claim 76 wherein the patient is a human.
 - 78. The method of Claim 76 wherein the Tie-2 dependent condition is characterized by excessive vascular proliferation.
 - 77. The method of Claim 78 wherein the Tie-2 dependent condition is a hyperproliferative disorder, cancer, a cardiovascular condition, an ocular condition, von Hippel Lindau disease, pemphigoid, psoriasis, Paget's disease, polycystic kidney disease, fibrosis, sarcoidosis, cirrhosis, thyroiditis, Osler-Weber-Rendu disease, chronic inflammation, synovitis, inflammatory bowel disease, Crohn's disease, rheumatoid arthritis, osteoarthritis, psoriatic arthritis,

an ulcer or sepsis.

5

The method of Claim 79, wherein the condition is a cancer selected from the group consisting of solid tumor, a sarcoma, fibrosarcoma, osteoma, melanoma, retinoblastoma, a rhabdomyosarcoma, glioblastoma, neuroblastoma, teratocarcinoma, an hematopoietic malignancy, malignant ascites, Kaposi's sarcoma, Hodgkin's disease, lymphoma, myeloma and leukemia.

PCT/US01/08853

- The method of Claim 79 wherein the condition is a cardiovascular condition selected from the group consisting of atherosclerosis, restenosis, ischemia/reperfusion injury, chronic occlusive pulmonary disease, vascular occlusion, carotid obstructive disease, Crow-Fukase (POEMS) syndrome, anemia, ischemia, infarct, and vascular leakage disorders.
- 15 B2. The method of Claim 79 wherein the condition is an ocular condition selected from the group consisting of ocular or macular edema, ocular neovascular disease, scleritis, radial keratotomy, uveitis, vitritis, myopia, optic pits, chronic retinal detachment, post-laser treatment complications, conjunctivitis, Stargardt's disease, Eales disease, retinopathy, macular degeneration and microangiopathy.
 - The method of Claim 76, wherein the disorder involves aberrant endothelial-periendothelial interactions.
- 25 A method of decreasing fertility in a patient comprising the step of administering to the patient a therapeutically effective amount of a Tie-2 inhibitor of Claim 59.

WO 01/72778

-72-

PCT/US01/08853

A method of promoting angiogenesis or vasculogenesis in a patient comprising the step of administering to the patient a therapeutically effective amount of a Tie-2 inhibitor of Claim 59.

5

- 86. The method of Claim 85, wherein the Tie-2 inhibitor is administered in combination with a pro-angiogenic growth factor.
- A method of determining the three dimensional structure of a polypeptide comprising the catalytic domain of a Tie-2 protein, said method comprising the steps of:
 - (a) obtaining a crystal of the polypeptide comprising the catalytic domain of Tie-2;
 - (b) obtaining x-ray diffraction data for said crystal; and
 - (c) solving the crystal structure of said crystal.
 - 88. A crystalline polypeptide, said polypeptide comprising a sequence having 80% homology with the catalytic domain of a Tie-2 protein.

15

. MDSLASLVLC GVSLLLSGTV EGAMDLILIN SLPLVSDAET SLTCIASGWR PHEPITIGRD FEALMNQHQD PLEVTQDVTR EWAKKVVWKR EKASKINGAY FCEGRVRGEA IRIRTMKMRQ QASFLPATLT MTVDKGDNVN ISFKKVLIKE EDAVIYKNGS FIHSVPRHEV PDILEVHLPH AQPQDAGVYS ARYIGGNLFT SAFTRLIVRR CEAQKWGPEC NHLCTACMNN GVCHEDTGEC ICPPGFMGRT CEKACELHTF GRTCKERCSG QEGCKSYVFC LPDPYGCSCA TGWKGLQCNE ACHPGFYGPD CKLRCSCNNG EMCDRFQGCL CSPGWQGLQC EREGIPRMTP KIVDLPDHIE VNSGKFNPIC KASGWPLPTN EEMTLVKPDG TVLHPKDFNH TDHFSVAIFT IHRILPPDSG VWVCSVNTVA GMVEKPFNIS VKVLPKPLNA PNVIDTGHNF AVINISSEPY FGDGPIKSKK LLYKPVNHYE AWQHIQVTNE IVTLNYLEPR TEYELCVQLV RRGEGGEGHP GPVRRFTTAS IGLPPPRGLN LLPKSQTTLN LTWQPIFPSS EDDFYVEVER RSVQKSDQQN IKVPGNLTSV LLNNLHPREQ YVVRARVNTK AQGEWSEDLT AWTLSDILPP QPENIKISNI THSSAVISWT ILDGYSISSI TIRYKVQGKN EDQHVDVKIK NATIIQYQLK GLEPETAYQV DIFAENNIGS SNPAFSHELV TLPESQAPAD LGGGKMLLIA ILGSAGMTCL TVLLAFLIIL QLKRANVQRR MAQAFQNVRE EPAVQFNSGT LALNRKVKNN PDPTIYPVLD WNDIKFQDVI GEGNFGQVLK ARIKKDGLRM DAAIKRMKEY ASKDDHRDFA GELEVLCKLG HHPNIINLLG ACEHRGYLYL AIEYAPHGNL LDFLRKSRVL ETDPAFAIAN STASTLSSQQ LLHFAADVAR GMDYLSQKQF IHRDLAARNI LVGENYVAKI ADFGLSRGQE VYVKKTMGRL PVRWMAIESL NYSVYTTNSD VWSYGVLLWE IVSLGGTPYC GMTCAELYEK LPQGYRLEKP LNCDDEVYDL MRQCWREKPY ERPSFAQILV SLNRMLEERK TYVNTTLYEK FTYAGIDCSA EEAA

FIG. 1

ALNRKVKNN ARIKKDGLRM HHPNIINLLG ETDPAFAIAN IHR N LAARNI PVRWMAIESL GMTCAELYEK	PDPTIYPVLD DAAIKRMKEY ACEHRGYLYL STASTLSSQQ LVGENYVAKI NYSVYTTNSD LPQGYRLEKP	WNDIKFQDVI ASKDDHRDFA AIEYAPHGNL LLHFAADVAR ADFGLSRGQE VWSYGVLLWE LNCDDEVYDL	GEGNFGQVLK GELEVLCKLG LDFLRKSRVL GMDYLSQKQF VYVKKTMGRL IVSLGGTPYC MRQCWREKPY
	LPQGYRLEKP	LNCDDEVYDL	MRQCWREKPY
ERPSFAQILV	SLNRMLEERK	TYVNTTLYEK	FTYAGIDCSA
EEAA			

CRYST1	95	.604	117.	.589 78.2	14 90.00	90.00	90.00		
ORIGX1	, ,	1.000		0.000000	0.00000		0.00000		
ORIGX2		0.000		1.000000	0.00000		0.00000		
ORIGX3		0.000		0.000000	1.00000		0.00000		
SCALE1		0.010		0.000000	0.00000		0.00000		
SCALE1		0.000		0.008504	0.00000		0.00000		
		0.000		0.000000	0.01278		0.00000	,	
SCALE3	-			818	5.159		-17.822	1.00 65.41	6
ATOM	1	CB	VAL				-15.926	1.00 99.70	6
ATOM	2	C	VAL	818	3.553		-16.444	1.00 99.70	8
ATOM	3	0	VAL	818	2.603			1.00 99.70	7
ATOM	4	N	VAL	818	4.074	49.203		1.00 99.70	6
ATOM	5	CA	VAL	818	4.628		-16.774		7
ATOM	б	N	LEU	819	3.729		-14.616	1.00100.00	, 6
MOTA	7	CA	LEU	819	2.912		-13.639	1.00100.00	
ATOM	8	CB	LEU	819	3.310		-12.250	1.00 77.77	6
ATOM	9	CG	LEU	819	2.625		-11.045	1.00 67.90	6
ATOM	10		LEU	819	1.161		-11.022	1.00 67.90	6
MOTA	11	CD2	LEU	819	3.336	51.313	-9.810	1.00 67.90	6
ATOM	12	C	LEU	819	2.607		-13.729	1.00100.00	6
ATOM	13	0	LEU	819	3.568	53.838	-13.899	1.00100.00	8
ATOM	14	N	ASP	820	1.351	53.507	-13.602	1.00100.00	7
MOTA	15	CA	ASP	820	0.990	54.928	-13.659	1.00100.00	б
ATOM	16	CB	ASP	820	-0.505	55.084	-13.929	1.00100.00	6
ATOM	17	CG	ASP	820	-0.910	56.525	-14.140	1.00100.00	6
ATOM	18	OD1	ASP	820	-2.054	56.874	-13.785	1.00100.00	8
ATOM	19	OD2	ASP	820	-0.087	57.303	-14.663	1.00100.00	8
ATOM	20	С	ASP	820	1.314	55.593	-12.329	1.00100.00	б
ATOM	21	0	ASP	820	0.786	55.200	-11.290	1.00100.00	8
ATOM	22	N	TRP	821	2.171	56.605	-12.361	1.00100.00	7
ATOM	23	CA	TRP	821	2.558	57.278	-11.132	1.00100.00	6
ATOM	24	CB	TRP	821	3.291	58.582	-11.458	1.00 96.30	6
ATOM	25	CG	TRP	821	3.985	59.118	-10.263	1.00 96.04	6
ATOM	26	CD2	TRP	821	3.369	59.782	-9.149	1.00 96.04	6
ATOM	27	CE2	TRP	821	4.371	59.991	-8.185	1.00 96.04	6
ATOM	28	CE3	TRP	821	2.061	60.200	-8.869	1.00 96.04	6
ATOM	29	CD1	TRP	821	5.302	58.974	-9.938	1.00 96.04	6
ATOM	30	NE1	TRP	821	5.545	59.494	-8.689	1.00 96.04	7
ATOM	31	CZ2	TRP	821	4.106	60.614	-6.976	1.00 96.04	6
ATOM	32	CZ3	TRP	821	1.803	60.816	-7.657	1.00 96.04	6
ATOM	33	CH2	TRP	821	2.824	61.007	-6.733	1.00 96.04	6
			TRP	821	1.355	57.543	-10.207	1.00100.00	6
ATOM	34	C		821	1.462	57.434	-8.983	1.00100.00	8
ATOM	35	0	TRP		0.207	57.853	-10.801	1.00 78.55	7
ATOM	36	N	ASN	822			-10.061	1.00 78.55	6
MOTA	37	CA	ASN	822	-1.018		-11.037	1.00100.00	6
MOTA	38	CB	ASN	822	-2.158			1.00100.00	6
MOTA	39		ASN	822	-3.126	59.416	-10.546	1.00100.00	8
ATOM	40		ASN	922	-3.508	60.321	-11.291	1.00100.00	7
MOTA	41	ND2	ASN	822	-3.536	59.303	-9286		6
ATOM	42	С	ASN		-1.453	57.094	-9.043	1.00 78.55	8
MOTA	43		ASN		-1.451	57.340	-7.842	1.00 78.55	7
ATOM	44		ASP	823	-1.854	55.933	-9.554	1.00 95.03	
MOTA	45	CA	ASP		-2.308	54.841	-8.704	1.00 95.03	6
ATOM	46	CB	ASP		-2.991	53.775	-9.562	1.00 65.89	6
MOTA	47	С	ASP	823	-1.158	54.218	-7.916	1.00 95.03	6

									_
MOTA	48	0	ASP	823	-0.967	53.008	-7.949	1.00 95.03	8
ATOM	49	N	ILE	824	-0.384	55.043	-7.221	1.00 88.67	7
ATOM	50	CA	ILE	824	0.729	54.531	-6.426	1.00 88.67	6
ATOM	51	CB	ILE	824	2.112	54.819	-7.082	1.00 53.67	6
ATOM	52	CG2	ILE	824	3.202	54.080	-6.326	1.00 56.64	6
ATOM	53	CG1	ILE	824	2.161	54.314	-8.526	1.00 56.64	6
ATOM	54	CD1	ILE	824	3.503	54.615	-9.196	1.00 56.64	6
ATOM	55	C	ILE	824	0.701	55.176	-5.041	1.00 88.67	6
ATOM	56	0	ILE	824	1.617	55.912	-4.665	1.00 88.67	8
ATOM	57	N	LYS	825	-0.361	54.889	-4.292	1.00 65.97	7
	58	CA	LYS	825	-0.552	55.426	-2.947	1.00 65.97	6
ATOM		CB	LYS	825	-1.917	54.995	-2.406	1.00 30.30	6
ATOM	59 60	C	LYS	825	0.544	55.003	-1.973	1.00 65.97	6
MOTA	60			825	0.502	53.909	-1.401	1.00 65.97	8
MOTA	61	0	LYS				-1.788	1.00 96.52	7
MOTA	62	N	PHE	826	1.526	55.879		1.00 96.52	6
ATOM	63	CA	PHE	826	2.632	55.608	-0.878	1.00 96.59	6
ATOM	64	CB	PHE	826	3.784	56.586	-1.112		6
MOTA	65	CG	PHE	826	4.397	56.474	-2.463	1.00100.00	
MOTA	66	CD1	PHE	826	3.989	57.310	-3.489	1.00100.00	6
ATOM	67	CD2	PHE	826	5.351	55.500	-2.726	1.00100.00	6
ATOM	68	CE1	PHE	826	4.518	57.181	-4.764	1.00100.00	6
MOTA	69	CE2	PHE	826	5.888	55.358	-4.001	1.00100.00	6
ATOM	70	CZ	PHE	826	5.469	56.202	-5.023	1.00100.00	6
ATOM	71	С	PHE	826	2.158	55.727	0.565	1.00 96.52	6
ATOM	72	0	PHE	826	1.746	56.794	0.991	1.00 96.52	8
ATOM	73	N	GLN	827	2.247	54.651	1.332	1.00100.00	7
ATOM	74	CA	GLN	827	1.769	54.708	2.698	1.00100.00	6
ATOM	75	CB	GLN	827	0.886	53.484	2.937	1.00100.00	6
ATOM	76	CG	GLN	827	-0.252	53.407	1.903	1.00100.00	6
ATOM	77	CD	GLN	827	-1.539	52.860	2.488	1.00100.00	6
ATOM	7.8	OE1	GLN	827	-1.553	51.771	3.060	1.00100.00	8
MOTA	79	NE2	GLN	827	-2.633	53.615	2.349	1.00100.00	7
MOTA	80	C	GLN	827	2.840	54.886	3.781	1.00100.00	6
ATOM	81	0	GLN	827	2.892	55.942	4.395	1.00100.00	8
ATOM	82	N	ASP	828	3.696	53.894	4.015	1.00 99.72	7
ATOM	83	CA	ASP	828	4.713	54.034	5.064	1.00 99.72	6
ATOM	84	CB	ASP	828	4.144	53.510	6.388	1.00 87.03	6
ATOM	85	CG	ASP	828	5.121	53.627	7.533	1.00 84.60	6
				828	5.870	54.617	7.572	1.00 84.60	8
ATOM	86	OD1		828	5.128	52.740	8.406	1.00 84.60	8
ATOM	87	OD2	ASP		6.003	53.286	4.720	1.00 99.72	6
ATOM	88	C	ASP	828	5.961	52.262	4.034		8
MOTA	89	0	ASP	828		53.772	5.178	1.00 85.45	7
MOTA	90	'N	VAL	829	7.154	53.772	4.863	1.00 85.45	6
ATOM	91	CA	VAL	829	8.408		5.391	1.00 51.35	6
ATOM	92	CB	VAL	829	9.606	53.874	5.402	1.00 85.45	6
MOTA	93	С	VAL	829	8.460	51.633		1.00 85.45	8
ATOM	94	0	VAL	829	8.437	51.418	6.615		7
MOTA	95	N	ILE	830	8.538	50.663	4.488	1.00100.00	6
ATOM	96	CA	ILE	830	8.598	49.244	4.852	1.00100.00	6
MOTA	97	CB	ILE	830	8.745	48.326	3.602	1.00100.00	
MOTA	98	CG2	ILE	830	9.458	47.031	3.973	1.00 81.07	6
MOTA	99	CG1	ILE	830	7.370	48.034	2.994	1.00 81.07	6
MOTA	100	CD1	ILE	830	6.385	47.414	3.969	1.00 81.07	6
ATOM	101	C	ILE	830	9.788	49.013	5.769	1.00100.00	6
MOTA	102	0	ILE	830	9.782	48.103	6.596	1.00100.00	8
ATOM	103	N	GLY	831	10.821	49.834	5.605	1.00 95.79	7
ATOM	104	CA	GLY	831	11.992	49.713	6.453	1.00 95.79	6
222011									

3 most	3.60	~~		0.7.0	0 000	E2 05E	7 060	7 00 04 00	_
ATOM	162	CG	LEU	839	9.039	53.975	1.060	1.00 84.90	6
ATOM	163		LEU	839	10.061	53.788	-0.028	1.00 84.90	6
MOTA	164	CD2	LEU	839	8.417	55.343	0.924	1.00 84.90	6
MOTA	165	С	LEU	839	6.900	50.671	1.061	1.00 44.19	6
ATOM	166	0	LEU	839	6.814	50.010	0.033	1.00 44.19	8
MOTA	167	N	LYS	840	5.920	50.740	1.959	1.00 64.49	7
MOTA	168	CA	LYS	840	4.642	50.068	1.744	1.00 64.49	6
ATOM	169	CB	LYS	840	3.953	49.727	3.066	1.00 84.80	6
ATOM	170	CG	LYS	840	2.531	49.222	2.900	1.00 81.21	6
ATOM	171	CD	LYS	840	2.073	48.506	4.142	1.00 81.21	6
MOTA	172	CE	LYS	840	0.582	48.660	4.331	1.00 81.21	6
ATOM	173	NZ	LYS	840	-0.153	48.279	3.096	1.00 81.21	7
ATOM	174	C	LYS	840	3.798	51.053	0.951	1.00 64.49	6
MOTA	175	0	LYS	840	3.854	52.260	1.176	1.00 64.49	8
ATOM	176		ALA .		3.021	50.538	0.016	1.00 53.58	7
		N	•	841			-0.814	1.00 53.58	6
ATOM	177	CA	ALA	841	2.219	51.409			6
MOTA	178	CB	ALA	841	3.082	51.913	-1.961	1.00 25.05	
MOTA	179	С	ALA	841	1.003	50.670	-1.353	1.00 53.58	6
MOTA	180	0	ALA	841	1.144	49.616	-1.966	1.00 53.58	8
ATOM	181	N	ARG	842	-0.189	51.212	-1.135	1.00 86.10	7
ATOM	182	CA	ARG	842	-1.385	50.551	-1.637	1.00 86.10	6
MOTA	183	CB	ARG	842	-2.630	51.062	-0.905	1.00 40.66	6
ATOM	184	C	ARG	842	-1.514	50.804	-3.137	1.00 86.10	6
ATOM	185	0	ARG	842	-2.277	51.662	-3.572	1.00 86.10	8
ATOM	186	N	ILE	843	-0.763	50.040	-3.918	1.00 81.66	7
ATOM	187	CA	ILE	843	-0.773	50.176	-5.372	1.00 81.66	6
ATOM	188	CB	ILE	843	0.612	49.831	-5.984	1.00100.00	6
ATOM	189	CG2	ILE	843	0.443	49.166	-7.362	1.00100.00	6
ATOM	190	CG1	ILE	843	1.469	51.092	-6.056	1.00100.00	6
ATOM	191	CD1		843	1.562	51.810	-4.732	1.00100.00	6
							-6.116	1.00 81.66	6
ATOM	192	C	ILE	843	-1.796	49.337		1.00 81.66	8
ATOM	193	0	ILE	843	-1.940	48.137	-5.884		
ATOM	194	N	LYS	844	-2.482	49.988	-7.041	1.00 89.28	7
ATOM	195	CA	LYS	844	-3.449	49.324	-7.893	1.00 89.28	6
ATOM	196	CB	LYS	844	-4.657	50.218	-8.114	1.00 80.56	6
ATOM	197	C	LYS	844	-2.695	49.129	-9.205	1.00 89.28	6
ATOM	198	0	LYS	844	-1.818	49.928	-9.538	1.00 89.28	8
ATOM	199	N	LYS	845	-3.022	48.079	-9.944	1.00100.00	7
ATOM	200	CA	LYS	845	-2.339	47.828	-11.208	1.00100.00	6
ATOM	201	CB	LYS	845	-1.937	46.355	-11.305	1.00100.00	6
ATOM	202	C	LYS	845	-3.232	48.203	-12.376	1.00100.00	6
MOTA	203	0	LYS	845	-3.957	49.206	-12.324	1.00100.00	8
ATOM	204	N٠	ASP	846	-2.834		-13.559	1.00100.00	7
ATOM	205	CA	ASP	846	-3.726		-14.691	1.00100.00	6
ATOM	206	CB	ASP	846	-3.314		-15.906	1.00100.00	6
ATOM	207	CG	ASP	846	-3.993		-17.201	1.00100.00	6
	208		ASP	846	-4.145		-17.444	1.00100.00	8
ATOM							-18.049	1.00100.00	8
ATOM	209		ASP	846	-4.414			1.00100.00	6
ATOM	210	C	ASP	846	-5.170		-14.320		
ATOM	211	0	ASP	846	-5.989		-15.186	1.00100.00	8
ATOM	212	N	GLY	847	-5.433		-13.030	1.00100.00	7
MOTA	213	CA	GLY	847	-6.758		-12.459	1.00100.00	6
ATOM	214	С	${ t GLY}$	847	-6.612	46.491	-11.067	1.00100.00	6
MOTA	215	0	GLY	847	-5.794	45.583	-10.856	1.00100.00	8
ATOM	216	N	LEU	848	-7.419	47.011	-10.161	1.00 86.45	7
ATOM	217	CA	LEU	848	-7.450	46.563	-8.761	1.00 86.45	б
ATOM	218	CB	LEU	848	-7.206	45.055	-8.687	1.00 99.14	6
					- '				

ATOM	219	CG	LEU	848	-6.201	44.560	-9.729	1.00 92.74	6
ATOM	220	CD1	LEU	848	-5.757	43.115	-9.491	1.00 92.74	6
ATOM	221	CD2	LEU	848	-6.753	44.595	-11.155	1.00 92.74	6
ATOM	222	С	LEU	848	-6.366	47.280	-7.954	1.00 86.45	6
ATOM	223	0	LEU	848	-5.717	48.215	-8.445	1.00 86.45	8
ATOM	224	N	ARG	849	-6.211	46.809	-6.730	1.00 99.60	7
ATOM	225	CA	ARG	849	-5.226	47.347	-5.780	1.00 99.60	6
MOTA	226	CB	ARG	849	-5.877	48.415	-4.899	1.00100.00	6
	227	CG	ARG	849	-6.736	49.403	-5.692	1.00 99.93	6
ATOM			ARG	849	-8.059	49.736	-4.998	1.00 99.93	6
ATOM	228	CD				50.134	-3.594	1.00 99.93	7
MOTA	229	NE	ARG	849	-7.887		-2.746	1.00 99.93	6
ATOM	230	CZ	ARG	849	-8.903	50.347		1.00 99.93	7
ATOM	231	NH1	ARG	849	-10.175	50.205	-3.143		7
ATOM	232	NH2	ARG	849	-8.747	50.710	-1.465	1.00 99.93	
ATOM	233	С	ARG	849	-4.694	46.224	-4.887	1.00 99.60	6
ATOM	234	0	ARG	849	-5.398	45.242	-4.608	1.00 99.60	8
ATOM	235	N	MET	850	-3.457	46.411	-4.467	1.00 80.73	7
ATOM	236	CA	MET	850	-2.754	45.456	-3.599	1.00 80.73	6
ATOM	237	CB	MET	850	-1.967	44.457	-4.450	1.00100.00	6
ATOM	238	CG	MET	850	-2.734	43.994	-5.690	1.00 68.64	6
ATOM	239	SD	MET	850	-1.849	44.290	-7.206	1.00 68.64	16
ATOM	240	CE	MET	850	-0.189	43.661	-7.074	1.00 68.64	6
ATOM	241	С	MET	850	-1.782	46.199	-2.681	1.00 80.73	6
ATOM	242	0	MET	850	-1.937	47.403	-2.426	1.00 80.73	8
ATOM	243	N	ASP	851	-1.168	45.352	-2.147	1.00 74.44	7
ATOM	244	CA	ASP	851	-0.137	45.775	-1.223	1.00 74.44	6
ATOM	245	CB	ASP	851	-0.163	44.913	0.034	1.00100.00	6
ATOM	246	CG	ASP	851	-0.724	45.642	1.229	1.00100.00	6
ATOM	247		ASP	851	-1.307	46.731	1.026	1.00100.00	8
ATOM	248	OD1	ASP	851	-0.588	45.124	2.360	1.00100.00	8
ATOM	249	C	ASP	851	1.159	45.518	-1.967	1.00 74.44	6
		0	ASP	851	1.583	44.367	-2.118	1.00 74.44	8
ATOM	250		ALA	852	1.775	46.581	-2.456	1.00 26.66	7
ATOM	251	N					-3.173	1.00 26.66	6
ATOM	252	CA	ALA	852	3.023	46.431		1.00 23.33	6
ATOM	253	CB -	ALA	852	2.984	47.212	-4.475	1.00 26.66	6
ATOM	254	C	ALA	852	4.155	46.921	-2.313	1.00 26.66	8
MOTA	255	0	ALA	852	3.957	47.275	-1.154		7
ATOM	256	N	ALA	853	5.346	46.931	-2.890	1.00 89.52	
ATOM	257	CA	ALA	853	6.532	47.410	-2.204	1.00 89.52	6
MOTA	258	CB	ALA	853	7.355	46.243	-1.675	1.00 23.28	6
ATOM	259	С	ALA	853	7.324	48.210	-3.229	1.00 89.52	6
MOTA	260.	0	ALA	853	7.765	47.668	-4.240	1.00 89.52	8
ATOM	261	N	ILE	854	7.417	49.467	-3.319	1.00 41.73	7
ATOM	262	CA	ILE	854	8.279	50.444	-3.999	1.00 41.73	6
ATOM	263	CB	ILE	854	7.851	51.866	-3.630	1.00 71.42	6
ATOM	264	CG2	ILE	854	8.539	52.937	-4.479	1.00 83.27	6
ATOM	265	CG1	ILE	854	6.349	52.102	-3.802	1.00 83.27	6
ATOM	266	CD1	ILE	854	5.768	51.388	-5.024	1.00 83.27	6
ATOM	267	С	ILE	854	9.736	50.239	-3.577	1.00 41.73	6
ATOM	268	0	ILE	854	10.035	50.042	-2.390	1.00 41.73	8
ATOM	269	N	LYS	855	10.597	50.294	-4.576	1.00 62.34	7
ATOM	270	CA	LYS	855	12.045	50.123	-4.395	1.00 62.34	6
	270	CB	LYS	855	12.496	48.792	-5.001	1.00 99.81	6
ATOM				855	13.652	48.147	-4.235	1.00 99.81	6
ATOM	272	CG	LYS		13.832	46.635	-4.449	1.00 99.81	6
ATOM	273	CD	LYS	855		46.212	~5.881	1.00 99.81	6
ATOM	274	CE	LYS	855	13.407		-6.824	1.00 99.81	7
MOTA	275	NZ	LYS	855	14.507	46.460	-0.024	1.00)).01	,

ATOM 276 C BIS 855 12.216 52.028 -5.869 1.00 62.34 8 ATOM 278 N ARG 856 14.076 51.334 -4.765 1.00100.00 7 ATOM 279 CA ARG 856 14.982 52.353 -5.313 1.00100.00 6 ATOM 280 CB ARG 856 14.324 53.733 -5.241 1.00 95.22 6 ATOM 281 CG ARG 856 15.161 54.829 -5.903 1.00 95.22 6 ATOM 282 CD ARG 856 14.465 56.192 -5.906 1.00 95.22 6 ATOM 283 NE ARG 856 15.316 57.271 -6.428 1.00 95.22 7 ATOM 284 CZ ARG 856 14.938 58.554 -6.503 1.00 95.22 7 ATOM 285 NH1 ARG 856 13.723 58.940 -6.093 1.00 95.22 7 ATOM 286 NH2 ARG 856 15.715 59.537 -6.979 1.00 95.22 7 ATOM 287 C ARG 856 16.284 52.382 -4.510 1.00100.00 8 ATOM 288 O ARG 856 16.269 52.404 -3.270 1.00100.00 8 ATOM 289 N MET 857 17.443 52.378 -5.338 1.00100.00 7 ATOM 290 CA MET 857 18.288 53.750 -3.743 1.00100.00 6 ATOM 291 CB MET 857 18.449 53.097 -2.384 1.00100.00 6 ATOM 292 CG MET 857 17.994 54.017 -1.306 1.00100.00 6 ATOM 293 SD MET 857 18.352 53.350 0.258 1.00100.00 6										_
ATOM 278 N ARG 886 14.076 51.334 -4.765 1.00100.00 7 ATOM 279 CA ARG 856 14.982 52.353 -5.313 1.00100.00 6 ATOM 281 CG ARG 856 14.392 52.353 -5.241 1.00 95.22 6 ATOM 281 CG ARG 856 14.482 53.733 -5.241 1.00 95.22 6 ATOM 282 CD ARG 856 14.485 56.192 -5.906 1.00 95.22 6 ATOM 283 NE ARG 856 14.455 56.192 -5.906 1.00 95.22 6 ATOM 283 NE ARG 856 14.455 56.192 -5.906 1.00 95.22 6 ATOM 283 NE ARG 856 14.455 56.192 -5.906 1.00 95.22 6 ATOM 285 NH1 ARG 856 14.938 58.554 -6.503 1.00 95.22 7 ATOM 286 NH2 ARG 856 15.316 57.271 -6.428 1.00 95.22 7 ATOM 287 C ARG 856 16.289 52.90 -6.093 1.00 95.22 7 ATOM 288 O ARG 856 16.289 52.404 -3.270 1.00100.00 6 ATOM 288 O ARG 856 16.289 52.404 -3.270 1.00100.00 6 ATOM 290 CA MET 857 17.443 52.378 -5.338 1.00100.00 6 ATOM 290 CA MET 857 18.449 53.097 -2.384 1.00100.00 6 ATOM 291 CB MET 857 18.449 53.097 -2.384 1.00100.00 6 ATOM 293 SD MET 857 18.459 53.0258 1.00100.00 6 ATOM 293 CG MET 857 18.552 53.350 0.258 1.00100.00 6 ATOM 295 C MET 857 19.646 53.843 -4.450 1.00100.00 6 ATOM 295 C MET 857 19.646 53.843 -4.450 1.00100.00 6 ATOM 296 CB ASP 864 22.299 52.937 -4.253 1.00100.00 6 ATOM 297 OXT MET 857 19.849 52.937 -4.253 1.00100.00 6 ATOM 298 CB ASP 864 22.291 58.052 -13.940 1.00100.00 6 ATOM 290 CA ASP 864 22.291 58.052 -13.940 1.00100.00 6 ATOM 300 O ASP 864 22.293 58.313 -12.792 1.00100.00 6 ATOM 300 C ASP 864 22.293 58.313 -12.792 1.00100.00 6 ATOM 300 C ASP 864 22.253 58.615 -11.734 1.00100.00 6 ATOM 300 C ASP 864 22.253 58.615 -11.734 1.00100.00 6 ATOM 301 N ASP 865 25.515 55.761 -13.940 1.00100.00 6 ATOM 303 N ASP 865 25.515 55.761 -13.940 1.00100.00 6 ATOM 304 CA ASP 865 25.515 55.761 -13.940 1.00100.00 6 ATOM 307 CB ASP 864 22.253 58.615 -11.734 1.00100.00 6 ATOM 307 CB ASP 864 22.253 58.615 -11.734 1.00100.00 6 ATOM 307 CB ASP 865 25.515 55.761 -13.940 1.00100.00 6 ATOM 307 CB ASP 866 22.895 58.842 -13.098 1.00100.00 6 ATOM 307 CB ASP 866 25.485 56.000 -11.733 1.00100.00 6 ATOM 307 CB ASP 866 25.485 56.000 -11.734 1.00100.00 6 ATOM 307 CB ASP 866 22.815 55.859 -17.21 1.00100.0	MOTA	276	С	LYS					1.00 62.34	6
ATOM 279 CA ARG 856 14.982 52.353 -5.313 1.00100.00 6 ATOM 280 CB ARG 856 14.324 53.733 -5.241 1.00 95.22 6 ATOM 281 CG ARG 856 15.161 \$4.829 -5.906 1.00 95.22 6 ATOM 282 CD ARG 856 15.161 \$4.829 -5.906 1.00 95.22 6 ATOM 283 NE ARG 856 15.316 57.271 -6.428 1.00 95.22 7 ATOM 284 CZ ARG 856 14.465 56.152 -5.906 1.00 95.22 7 ATOM 284 CZ ARG 856 14.938 58.554 -6.503 1.00 95.22 7 ATOM 285 NH1 ARG 856 13.723 58.940 -6.093 1.00 95.22 7 ATOM 286 NH2 ARG 856 13.733 58.954 -6.503 1.00 95.22 7 ATOM 286 NH2 ARG 856 13.723 58.940 -6.093 1.00 95.22 7 ATOM 286 NH2 ARG 856 15.715 55.537 -6.478 1.00 100.00 6 ATOM 289 N MET 857 17.443 52.378 -5.338 1.00100.00 6 ATOM 289 N MET 857 17.443 53.788 -5.338 1.00100.00 6 ATOM 291 CB MET 857 18.288 53.750 -3.743 1.00100.00 6 ATOM 292 CG MET 857 18.288 53.750 -3.743 1.00100.00 6 ATOM 293 SD MET 857 18.288 53.097 -2.334 1.00100.00 6 ATOM 293 SD MET 857 19.94 54.017 -1.306 1.00100.00 6 ATOM 293 SD MET 857 19.94 54.017 -1.306 1.00100.00 6 ATOM 294 CE MET 857 19.646 53.843 -4.450 1.00100.00 6 ATOM 295 C MET 857 19.646 53.843 -4.450 1.00100.00 6 ATOM 295 C MET 857 19.646 53.843 -4.450 1.00100.00 6 ATOM 295 C MET 857 19.839 54.838 -5.196 1.00100.00 6 ATOM 295 C MET 857 19.839 54.838 -5.196 1.00100.00 6 ATOM 295 C MET 857 19.839 54.838 -5.196 1.00100.00 6 ATOM 297 OXT MET 857 19.839 54.838 -5.196 1.00100.00 6 ATOM 297 OXT MET 857 19.839 54.838 -5.196 1.00100.00 6 ATOM 297 OXT MET 857 19.839 54.838 -5.196 1.00100.00 6 ATOM 297 OXT MET 857 19.839 54.838 -5.196 1.00100.00 6 ATOM 303 N ASP 864 22.263 57.542 -10.688 1.00100.00 6 ATOM 303 N ASP 864 22.263 57.542 -10.688 1.00100.00 6 ATOM 303 N ASP 865 25.570 57.942 -11.00100.00 6 ATOM 304 CA ASP 864 22.263 57.542 -10.688 1.00100.00 6 ATOM 303 N ASP 865 25.570 57.942 -11.00100.00 6 ATOM 304 CA ASP 864 22.263 57.542 -10.688 1.00100.00 6 ATOM 304 CA ASP 864 22.263 57.542 -10.688 1.00100.00 6 ATOM 304 CA ASP 866 22.557 55.7542 -10.688 1.00100.00 6 ATOM 304 CA ASP 866 22.557 55.7542 -10.688 1.00100.00 6 ATOM 304 CA ASP 866 22.557 55.7542 -10.00100.00 6 ATO	MOTA	277	0	LYS						
ATOM 280 CB ARG 856 14.324 53.733 -5.241 1.00 95.22 6 ATOM 281 CG ARG 856 15.161 5.461 56.182 -5.903 1.00 95.22 6 ATOM 282 CD ARG 856 14.465 56.182 -5.903 1.00 95.22 6 ATOM 283 NE ARG 856 14.465 56.182 -5.903 1.00 95.22 6 ATOM 283 NE ARG 856 14.938 58.554 -6.503 1.00 95.22 6 ATOM 285 NH1 ARG 856 14.938 58.554 -6.503 1.00 95.22 7 ATOM 286 NH2 ARG 856 14.938 58.554 -6.503 1.00 95.22 7 ATOM 286 NH2 ARG 856 15.715 59.537 -6.979 1.00 95.22 7 ATOM 287 C ARG 856 16.284 52.382 -4.510 1.00100.00 6 ATOM 288 O ARG 856 16.269 52.404 -3.270 1.00100.00 6 ATOM 289 N MET 857 17.443 52.378 -5.338 1.00100.00 7 ATOM 290 CA MET 857 18.489 53.750 -3.743 1.00100.00 6 ATOM 291 CE MET 857 18.49 53.097 -2.384 1.00100.00 6 ATOM 292 CG MET 857 18.49 53.097 -2.384 1.00100.00 6 ATOM 294 CE MET 857 18.49 53.097 -2.384 1.00100.00 6 ATOM 295 C MET 857 18.49 53.097 -1.306 1.00100.00 6 ATOM 295 C MET 857 18.949 54.017 -1.306 1.00100.00 6 ATOM 295 C MET 857 19.646 53.447 0.204 1.00100.00 6 ATOM 297 OXT MET 857 19.646 53.447 0.204 1.00100.00 6 ATOM 297 OXT MET 857 19.839 54.838 -5.196 1.00100.00 6 ATOM 290 C ASP 864 22.233 58.318 -12.792 1.00100.00 6 ATOM 300 O ASP 864 22.233 58.318 -12.792 1.00100.00 6 ATOM 301 N ASP 864 22.263 58.615 -11.734 1.00100.00 6 ATOM 302 CA ASP 864 22.263 58.615 -11.734 1.00100.00 6 ATOM 303 N ASP 865 22.591 56.942 -13.698 1.00100.00 6 ATOM 304 CA ASP 865 22.591 56.942 -13.698 1.00100.00 6 ATOM 307 O ASP 865 25.554 54.733 -13.471 1.00100.00 6 ATOM 308 C ASP 864 22.263 58.615 -11.734 1.00100.00 6 ATOM 309 C AHIS 866 25.459 59.333 -12.412 1.00100.00 6 ATOM 301 C BASP 864 22.263 58.615 -11.734 1.00100.00 6 ATOM 302 CA ASP 864 22.263 58.615 -11.734 1.00100.00 6 ATOM 303 N ASP 865 26.537 55.781 -13.990 1.00100.00 6 ATOM 304 CA ASP 865 25.554 54.793 -13.994 1.00100.00 6 ATOM 305 CB ASP 866 25.555 55.894 -13.373 1.00100.00 6 ATOM 307 C ASP 866 25.555 55.894 -13.373 1.00100.00 6 ATOM 308 C A BSP 866 26.537 55.781 -13.390 1.00100.00 6 ATOM 309 CA HIS 866 25.555 54 54.713 -11.735 1.00100.00 6 ATOM 301 C ARG 867 23.470 55.628 -13	ATOM	278	N	ARG						
ATOM 281 CG ARG 856 15.161 54.829 -5.903 1.00 95.22 6 ATOM 282 CD ARG 856 15.316 57.271 -6.428 2.00 95.22 7 ATOM 283 NE ARG 856 15.316 57.271 -6.428 2.00 95.22 7 ATOM 284 CZ ARG 856 15.316 57.271 -6.428 2.00 95.22 7 ATOM 285 NH1 ARG 856 15.316 57.271 -6.428 2.00 95.22 7 ATOM 286 NH2 ARG 856 15.316 57.271 -6.428 2.00 95.22 7 ATOM 286 NH2 ARG 856 15.715 55.537 -6.979 1.00 95.22 7 ATOM 287 C ARG 856 16.284 52.382 -4.510 1.00100.00 6 ATOM 289 N MET 857 17.443 52.378 -5.338 1.00100.00 7 ATOM 299 C ARG 856 16.289 52.404 -3.270 1.00100.00 6 ATOM 299 C B MET 857 18.288 53.750 -3.743 1.00100.00 6 ATOM 291 CB MET 857 18.288 53.750 -3.743 1.00100.00 6 ATOM 292 CG MET 857 18.449 53.097 -2.384 1.00100.00 6 ATOM 293 SD MET 857 18.459 53.350 0.258 1.00100.00 6 ATOM 294 CE MET 857 20.116 53.447 0.204 1.00100.00 6 ATOM 295 C MET 857 19.646 53.843 -4.450 1.00100.00 6 ATOM 296 O MET 857 19.646 53.843 -4.450 1.00100.00 6 ATOM 297 OXT MET 857 19.839 54.838 -5.196 1.00 82.00 8 ATOM 299 C ASP 864 22.253 57.597 -4.253 1.00100.00 6 ATOM 299 C ASP 864 22.253 57.542 -10.688 1.00100.00 6 ATOM 299 C ASP 864 22.263 57.542 -10.688 1.00100.00 7 ATOM 300 O ASP 864 22.263 57.542 -10.688 1.00100.00 7 ATOM 301 N ASP 864 22.263 57.988 -11.347 1.00100.00 7 ATOM 304 CA ASP 865 24.599 58.333 -12.412 1.00100.00 7 ATOM 305 CA MSP 865 22.591 56.494 -13.073 1.00100.00 7 ATOM 306 C ASP 865 24.599 58.333 -12.412 1.00100.00 7 ATOM 307 O ASP 865 25.570 57.988 -13.347 1.00100.00 6 ATOM 308 N HIS 866 25.457 55.791 -13.992 1.00100.00 6 ATOM 307 CA BSP 864 22.263 57.542 -10.688 1.00100.00 7 ATOM 308 CA ASP 865 24.599 58.333 -12.412 1.00100.00 6 ATOM 307 CA BSP 865 25.570 57.988 -13.347 1.00100.00 6 ATOM 307 CA BSP 865 26.573 57.988 -13.347 1.00100.00 6 ATOM 307 CA BSP 865 26.573 57.988 -13.347 1.00100.00 6 ATOM 307 CA BSP 865 26.573 57.988 -13.347 1.00100.00 6 ATOM 307 CA BSP 865 26.573 57.988 -13.347 1.00100.00 6 ATOM 307 CA BSP 865 26.573 57.988 -13.347 1.00100.00 6 ATOM 307 CA BSP 866 25.754 55.701 -13.992 1.00100.00 6 ATOM 308 CA BSP 866 25.755 57.988 -13.34	MOTA	279	CA	ARG	856	14.982				
ATOM 283 NE ARG 856 14.465 \$6.192 -5.006 1.00 95.22 6 ATOM 283 NE ARG 856 14.938 \$5.7771 -6.428 1.00 95.22 6 ATOM 285 NH1 ARG 856 14.938 \$5.554 -6.503 1.00 95.22 7 ATOM 286 NH2 ARG 856 14.938 \$5.554 -6.503 1.00 95.22 7 ATOM 286 NH2 ARG 856 15.715 59.537 -6.979 1.00 95.22 7 ATOM 287 C ARG 856 16.284 \$2.382 -4.510 1.00100.00 6 ATOM 288 O ARG 856 16.284 \$2.382 -4.510 1.00100.00 6 ATOM 289 N MET 857 17.443 \$2.378 -5.338 1.00100.00 7 ATOM 290 CA MET 857 18.449 \$3.097 -2.384 1.00100.00 6 ATOM 291 CB MET 857 18.449 \$3.097 -2.384 1.00100.00 6 ATOM 292 CG MET 857 17.994 \$4.017 -1.306 1.00100.00 6 ATOM 293 SD MET 857 19.646 \$3.843 -4.450 1.00100.00 6 ATOM 295 C MET 857 19.646 \$3.843 -4.450 1.00100.00 6 ATOM 297 OXT MET 857 19.839 \$4.838 -5.196 1.00100.00 6 ATOM 299 C ASP 864 22.497 \$5.937 -4.253 1.00100.00 8 ATOM 299 C ASP 864 22.249 \$5.955 -11.088 1.00100.00 8 ATOM 299 C ASP 864 22.293 57.542 -10.688 1.00100.00 6 ATOM 300 O ASP 864 22.263 \$7.542 -10.688 1.00100.00 6 ATOM 301 N ASP 865 24.599 \$8.333 -12.412 1.00100.00 6 ATOM 303 N ASP 865 22.591 \$5.649 -13.093 1.00100.00 6 ATOM 304 CA ASP 864 22.263 \$7.542 -10.688 1.00100.00 6 ATOM 307 O ASP 864 22.263 \$7.542 -10.688 1.00100.00 6 ATOM 308 N HIS 866 25.595 \$5.843 -13.940 1.00100.00 6 ATOM 307 O ASP 864 22.263 \$5.615 -11.734 1.00100.00 6 ATOM 308 N HIS 866 25.554 \$5.608 -11.889 1.0087.31 6 ATOM 307 O ASP 865 26.575 \$5.988 -13.00100.00 6 ATOM 308 N HIS 866 25.555 \$5.842 -13.990 1.00100.00 6 ATOM 308 N HIS 866 25.555 \$5.842 -13.990 1.00100.00 6 ATOM 307 O ASP 865 26.575 \$5.788 -13.395 1.00100.00 6 ATOM 308 N HIS 866 25.554 \$5.608 -11.735 1.00100.00 6 ATOM 307 O ASP 865 26.570 \$5.781 -13.992 1.00100.00 6 ATOM 308 N HIS 866 25.554 \$5.608 -11.488 1.00100.00 7 ATOM 307 O ASP 865 26.570 \$5.781 -13.992 1.00100.00 6 ATOM 308 N HIS 866 25.554 \$5.951 \$6.494 -13.073 1.00100.00 6 ATOM 308 N HIS 866 25.554 \$5.951 \$6.494 -13.073 1.00100.00 6 ATOM 310 CB HIS 866 25.554 \$5.951 \$6.494 -13.073 1.00100.00 6 ATOM 310 CB HIS 866 25.554 \$5.951 \$6.494 -13.073 1.00100.00 6 ATOM 310 CB ARG 867 22.4	MOTA	280	CB	ARG	856					
ATOM 283 NE ARG 856 15.316 57.271 -6.428 1.00 95.22 7 ATOM 284 CZ ARG 856 14.938 58.554 -6.503 1.00 95.22 7 ATOM 285 NH1 ARG 856 13.723 58.940 -6.093 1.00 95.22 7 ATOM 286 NH2 ARG 856 15.715 59.537 -6.979 1.00 95.22 7 ATOM 287 C ARG 856 16.284 52.382 -4.510 1.00100.00 6 ATOM 288 O ARG 856 16.289 52.404 -3.270 1.00100.00 6 ATOM 289 N MET 857 17.443 52.378 -5.338 1.00100.00 7 ATOM 290 CA MET 857 18.288 53.750 -3.743 1.00100.00 6 ATOM 291 CE MET 857 18.289 53.750 -3.743 1.00100.00 6 ATOM 292 CG MET 857 17.945 54.017 -1.306 1.00100.00 6 ATOM 293 SD MET 857 19.646 53.843 -4.450 1.00100.00 6 ATOM 295 C MET 857 19.646 53.843 -4.450 1.00100.00 6 ATOM 296 O MET 857 19.839 54.838 -5.196 1.00100.00 6 ATOM 297 OXT MET 857 19.839 54.838 -5.196 1.00100.00 6 ATOM 299 C ASP 864 22.499 59.975 -11.088 1.00100.00 6 ATOM 299 C ASP 864 22.283 57.542 -10.688 1.00100.00 7 ATOM 300 CA ASP 864 22.263 57.542 -10.688 1.00100.00 7 ATOM 301 N ASP 864 22.263 57.542 -10.688 1.00100.00 7 ATOM 302 CA ASP 865 25.670 57.984 11.734 1.00100.00 6 ATOM 304 CA ASP 865 25.545 56.615 11.734 1.00100.00 6 ATOM 305 CB ASP 865 25.545 56.615 11.734 1.00100.00 6 ATOM 306 CA ASP 865 25.555 56.615 11.734 1.00100.00 6 ATOM 307 O ASP 865 25.555 58.842 -13.307 1.00100.00 6 ATOM 308 N HIS 866 25.555 58.842 -13.093 1.00100.00 6 ATOM 309 CA HIS 866 25.555 58.842 -13.307 1.00100.00 6 ATOM 301 CB ASP 865 25.670 57.986 -11.734 1.00100.00 6 ATOM 301 CB ASP 865 25.5670 57.986 -11.734 1.00100.00 6 ATOM 301 CB ASP 865 25.555 54.741 1.1357 1.00100.00 6 ATOM 302 CA ASP 865 25.555 54.741 1.1357 1.00100.00 6 ATOM 303 N ASP 865 26.535 58.842 -13.309 1.00100.00 6 ATOM 304 CA ASP 865 25.555 54.751 -13.3902 1.00100.00 6 ATOM 305 CB ASP 865 25.5670 57.986 -11.734 1.00100.00 6 ATOM 307 CA ASP 865 25.5670 57.986 -11.734 1.00100.00 6 ATOM 308 N HIS 866 25.555 58.842 -13.3093 1.00100.00 6 ATOM 301 CB ASP 865 25.6670 57.986 -11.735 1.00100.00 6 ATOM 311 CG HIS 866 25.555 58.842 -13.3093 1.00100.00 6 ATOM 312 CG ASP 865 25.670 57.986 -11.735 1.00100.00 6 ATOM 313 ND HIS 866 25.555 58.615	MOTA	281	CG	ARG	856		54.829			
ATOM 284 CZ ARG 856 14.938 58.554 -6.503 1.00 95.22 6 ATOM 285 NH1 ARG 856 13.723 58.940 -6.093 1.00 95.22 7 ATOM 286 NH2 ARG 856 15.715 59.537 -6.979 1.00 95.22 7 ATOM 287 C ARG 856 16.284 52.382 -4.510 1.00100.00 8 ATOM 289 N MET 857 17.443 52.378 -5.338 1.00100.00 7 ATOM 290 CA MET 857 17.443 52.378 -5.338 1.00100.00 7 ATOM 291 CB MET 857 18.288 53.750 -3.743 1.00100.00 6 ATOM 292 CG MET 857 18.288 53.750 -3.743 1.00100.00 6 ATOM 293 SD MET 857 18.582 53.350 0.253 1.00100.00 6 ATOM 294 CE MET 857 19.546 53.843 -4.450 1.00100.00 6 ATOM 295 C MET 857 19.546 53.843 -4.450 1.00100.00 6 ATOM 295 C MET 857 19.646 53.843 -4.450 1.00100.00 6 ATOM 296 C MET 857 19.646 53.843 -4.450 1.00100.00 6 ATOM 297 OXT MET 857 19.839 54.838 -5.196 1.00100.00 6 ATOM 299 C ASP 864 22.499 59.975 -11.088 1.00100.00 6 ATOM 299 C ASP 864 22.291 58.052 -13.940 1.00100.00 6 ATOM 300 N ASP 864 22.263 57.542 -10.688 1.00100.00 7 ATOM 301 N ASP 864 22.263 57.542 -10.688 1.00100.00 7 ATOM 303 N ASP 865 24.559 58.331 -12.412 1.00100.00 7 ATOM 304 CA ASP 865 22.559 58.842 -13.944 1.00100.00 6 ATOM 305 CB ASP 865 25.670 57.988 13.347 1.00100.00 7 ATOM 306 C ASP 865 25.570 57.988 13.374 1.00100.00 6 ATOM 307 N ASP 865 25.575 58.842 -13.998 1.00100.00 7 ATOM 308 N HIS 866 25.545 54.713 -11.899 1.00000.00 7 ATOM 308 N HIS 866 25.551 56.494 -13.073 1.00100.00 6 ATOM 300 C ASP 865 26.925 58.842 -13.098 1.00100.00 7 ATOM 301 N ASP 865 26.925 58.842 -13.098 1.00100.00 7 ATOM 302 CA ASP 865 26.525 58.842 -13.098 1.00100.00 7 ATOM 303 N ASP 865 26.525 58.842 -13.098 1.00100.00 7 ATOM 304 CA ASP 865 25.571 55.781 -13.902 1.00100.00 6 ATOM 305 CB ASP 865 26.925 58.842 -13.098 1.00100.00 6 ATOM 306 C ASP 865 26.925 58.842 -13.098 1.00100.00 6 ATOM 307 O ASP 865 26.537 55.781 -13.992 1.00100.00 6 ATOM 308 N HIS 866 25.545 54.713 -11.151 1.00100.00 6 ATOM 310 CB HIS 866 25.545 54.713 -11.151 1.00100.00 6 ATOM 310 CB HIS 866 23.599 5.3339 -10.544 1.00100.00 6 ATOM 310 CB HIS 866 23.599 53.339 -10.544 1.00100.00 6 ATOM 311 CG HIS 866 24.509 55.378 -1.7219 1.0	MOTA	282	CD	ARG	856					
ATOM 285 NH1 ARG 856 13.723 58.940 -6.093 1.00 95.22 7 ATOM 286 NH2 ARG 856 15.715 59.537 -6.979 1.00 95.22 7 ATOM 287 C ARG 856 16.284 52.382 -4.510 1.00100.00 6 ATOM 288 O ARG 856 16.284 52.382 -4.510 1.00100.00 6 ATOM 289 N MET 857 17.443 52.378 -5.338 1.00100.00 7 ATOM 290 CA MET 857 18.288 53.750 -3.743 1.00100.00 6 ATOM 291 CB MET 857 18.449 53.097 -2.384 1.00100.00 6 ATOM 292 CG MET 857 18.449 53.097 -2.384 1.00100.00 6 ATOM 293 SD MET 857 18.525 53.350 0.258 1.00100.00 6 ATOM 294 CE MET 857 19.454 50.017 -1.306 1.00100.00 6 ATOM 295 C MET 857 19.646 53.447 0.204 1.001100.00 6 ATOM 296 O MET 857 19.646 53.447 0.204 1.001100.00 6 ATOM 297 OXT MET 857 19.839 54.838 -5.196 1.00100.00 6 ATOM 299 C ASP 864 22.499 59.975 -11.088 1.00100.00 6 ATOM 299 C ASP 864 22.499 59.975 -11.088 1.00100.00 6 ATOM 300 O ASP 864 22.263 57.542 -10.688 1.00100.00 6 ATOM 301 N ASP 865 24.599 58.333 -12.412 1.00100.00 6 ATOM 302 CA ASP 864 22.263 57.542 -10.688 1.00100.00 6 ATOM 303 N ASP 865 26.925 58.842 -13.3940 1.00100.00 6 ATOM 304 CA ASP 865 26.925 58.842 -13.399 1.00100.00 6 ATOM 307 O ASP 865 25.670 57.986 -13.347 1.00100.00 6 ATOM 308 N HIS 866 25.728 54.733 -12.412 1.00100.00 6 ATOM 307 O ASP 865 25.935 56.842 -13.098 1.00 87.31 6 ATOM 308 N HIS 866 25.578 54.713 -11.397 1.00100.00 6 ATOM 307 O ASP 865 25.578 54.713 -11.397 1.00100.00 6 ATOM 308 N HIS 866 25.728 54.733 -12.412 1.00100.00 6 ATOM 307 O ASP 865 25.935 56.882 -13.399 1.0099.63 6 ATOM 308 N HIS 866 25.728 54.733 -12.412 1.00100.00 6 ATOM 310 CB HIS 866 25.728 54.726 -9.827 1.00100.00 6 ATOM 310 CB HIS 866 25.728 54.726 -9.827 1.00100.00 6 ATOM 310 CB HIS 866 25.728 54.726 -9.827 1.00100.00 6 ATOM 310 CB HIS 866 25.728 54.726 -9.827 1.00100.00 6 ATOM 310 CB HIS 866 23.599 53.339 -10.964 1.00100.00 6 ATOM 313 ND1 HIS 866 25.728 54.726 -9.827 1.00100.00 6 ATOM 314 CE HIS 866 23.599 53.339 -10.964 1.00100.00 6 ATOM 315 NE2 HIS 866 23.599 53.339 -10.964 1.00100.00 6 ATOM 318 N ARG 867 22.419 54.106 -13.495 1.00100.00 6 ATOM 320 CB ARG 867 22.419 55.859 -17.219 1.	ATOM	283	NE	ARG	856	15.316	57.271			
ATOM 286 NH2 ARG 856 15.715 59.537 -6.979 1.00 95.22 7 ATOM 287 C ARG 856 16.284 52.382 -4.510 1.00100.00 8 ATOM 288 O ARG 856 16.284 52.382 -4.510 1.00100.00 8 ATOM 289 N MET 857 17.443 52.378 -5.338 1.00100.00 6 ATOM 290 CA MET 857 18.288 53.750 -3.743 1.00100.00 6 ATOM 291 CB MET 857 18.449 53.097 -2.384 1.00100.00 6 ATOM 292 CG MET 857 18.985 53.750 -3.743 1.00100.00 6 ATOM 293 SD MET 857 18.985 53.750 -3.743 1.00100.00 6 ATOM 294 CE MET 857 20.116 53.447 0.204 1.00100.00 6 ATOM 295 C MET 857 20.116 53.447 0.204 1.00100.00 6 ATOM 296 O MET 857 20.497 52.937 -4.253 1.00100.00 6 ATOM 297 OXT MET 857 19.839 54.838 -5.196 1.00100.00 6 ATOM 298 CB ASP 864 22.499 59.975 -11.088 1.00 82.10 8 ATOM 298 CB ASP 864 22.981 58.052 -13.940 1.00100.00 6 ATOM 300 O ASP 864 22.263 57.542 -10.688 1.00100.00 6 ATOM 301 N ASP 864 22.263 57.542 -10.688 1.00100.00 6 ATOM 303 N ASP 865 24.599 58.331 -12.792 1.00100.00 6 ATOM 304 CA ASP 865 22.650 57.988 -13.394 1.00100.00 6 ATOM 305 CB ASP 865 25.551 56.494 -13.398 1.00100.00 6 ATOM 306 C ASP 865 25.551 56.494 -13.398 1.00100.00 6 ATOM 307 O ASP 865 25.551 56.494 -13.399 1.00100.00 6 ATOM 308 N HIS 866 25.555 58.842 -13.998 1.00100.00 6 ATOM 308 N HIS 866 25.555 58.842 -13.998 1.00100.00 6 ATOM 308 N HIS 866 25.555 56.494 -13.073 1.00100.00 6 ATOM 310 CB HIS 866 25.555 56.494 -13.073 1.00100.00 6 ATOM 310 CB HIS 866 25.555 56.494 -13.073 1.00100.00 6 ATOM 310 CB HIS 866 25.595 58.842 -13.098 1.0099.63 7 ATOM 310 CB HIS 866 23.472 54.858 -8.543 1.00100.00 6 ATOM 310 CB HIS 866 23.599 53.339 -10.064 1.00100.00 6 ATOM 311 CG HIS 866 23.599 53.339 -10.064 1.00100.00 6 ATOM 312 CD RAG 867 22.495 55.495 -17.219 1.00100.00 6 ATOM 313 NDI HIS 866 23.599 53.339 -10.064 1.00100.00 6 ATOM 314 CG HIS 866 23.599 53.339 -10.064 1.00100.00 6 ATOM 315 NA BR 867 23.492 54.496 51.394 1.00100.00 6 ATOM 316 C HIS 866 23.599 53.339 -10.064 1.00100.00 6 ATOM 317 O HIS 866 23.599 53.339 -10.064 1.00100.00 6 ATOM 318 N ARG 867 22.419 54.106 -13.409 1.00100.00 6 ATOM 320 CA RG 867 22.495 55.496 -17.219 1	ATOM	284	CZ	ARG	856	14.938	58.554			
ATOM 288 CB ASP 864 22.499 59.975 -11.088 1.00100.00 6 ATOM 290 C ASP 864 22.263 58.615 -13.792 1.00100.00 6 ATOM 290 C ASP 865 26.537 50.538 1.00100.00 7 ATOM 291 CB MET 857 18.352 53.350 0.258 1.00100.00 6 ATOM 293 SD MET 857 18.352 53.350 0.258 1.00100.00 6 ATOM 294 CE MET 857 18.352 53.350 0.258 1.00100.00 6 ATOM 295 C MET 857 18.352 53.350 0.258 1.00100.00 6 ATOM 296 C MET 857 19.646 53.843 -4.450 1.00100.00 6 ATOM 297 OXT MET 857 19.646 53.843 -4.450 1.00100.00 6 ATOM 298 C ASP 864 22.981 58.052 -13.940 1.00100.00 6 ATOM 300 O ASP 864 22.263 57.542 -10.688 1.00100.00 6 ATOM 300 O ASP 864 22.263 57.542 -10.688 1.00100.00 6 ATOM 302 CA ASP 865 26.537 57.988 -13.347 1.00100.00 6 ATOM 304 CA ASP 865 26.537 57.988 -13.347 1.00100.00 6 ATOM 305 CB ASP 865 25.670 57.988 -13.347 1.00100.00 6 ATOM 307 O ASP 865 25.551 58.842 -13.098 1.00100.00 6 ATOM 307 O ASP 865 25.551 58.842 -13.098 1.00100.00 6 ATOM 307 O ASP 865 25.551 58.842 -13.098 1.00100.00 6 ATOM 307 O ASP 865 25.551 58.842 -13.098 1.00100.00 6 ATOM 307 O ASP 865 25.551 56.080 -11.889 1.00 99.63 7 ATOM 308 N HIS 866 23.472 54.984 -13.098 1.00100.00 6 ATOM 301 CB HIS 866 23.472 54.885 -5.915 1.00100.00 6 ATOM 302 CB HIS 866 23.572 57.092 1.00100.00 6 ATOM 303 CB HIS 866 23.572 57.092 1.00100.00 6 ATOM 304 CA ASP 865 25.551 56.894 -13.098 1.00100.00 6 ATOM 307 O ASP 865 25.551 56.894 -13.098 1.00100.00 6 ATOM 307 O ASP 865 25.551 56.894 -13.098 1.00100.00 6 ATOM 308 N HIS 866 25.485 56.080 -11.889 1.00 99.63 7 ATOM 309 CA HIS 866 23.472 54.858 -5.491 1.00100.00 6 ATOM 310 CB HIS 866 23.472 54.858 -6.543 1.00100.00 6 ATOM 310 CB HIS 866 23.472 54.858 -7.915 1.00100.00 6 ATOM 310 CB HIS 866 23.599 57.002 -8.065 1.00100.00 6 ATOM 311 CG HIS 866 23.599 57.002 -8.065 1.00100.00 6 ATOM 312 CD 2 HIS 866 23.599 57.002 -8.065 1.00100.00 6 ATOM 313 NDI HIS 866 23.599 57.002 -8.065 1.00100.00 6 ATOM 320 CB ARG 867 22.419 54.106 -13.405 1.00100.00 6 ATOM 321 CB ARG 867 22.419 54.106 -13.405 1.00100.00 6 ATOM 322 CD ARG 867 22.419 54.106 -13.405 1.00100.00 6 ATOM 323 N	ATOM	285	NHl	ARG	856	13.723	58.940			
ATOM 288 O ARG 856 16.269 52.404 -3.270 1.00100.00 8 ATOM 289 N MET 857 17.443 52.378 -5.338 1.00100.00 7 ATOM 290 CA MET 857 18.288 53.750 -3.743 1.00100.00 6 ATOM 291 CB MET 857 18.449 53.097 -2.384 1.00100.00 6 ATOM 292 CG MET 857 17.994 54.017 -1.306 1.00100.00 6 ATOM 293 SD MET 857 18.352 53.350 0.258 1.00100.00 6 ATOM 294 CE MET 857 20.116 53.447 0.204 1.00100.00 6 ATOM 295 C MET 857 20.116 53.447 0.204 1.00100.00 6 ATOM 295 C MET 857 19.646 53.447 0.204 1.00100.00 6 ATOM 296 O MET 857 20.497 52.937 -4.253 1.00100.00 6 ATOM 297 OXT MET 857 19.839 54.838 -5.196 1.00 82.10 8 ATOM 298 CB ASP 864 22.499 59.975 -11.088 1.00 55.87 6 ATOM 299 C ASP 864 22.249 59.975 -11.088 1.00 55.87 6 ATOM 300 O ASP 864 22.263 58.615 -11.744 1.00100.00 6 ATOM 301 N ASP 864 22.263 57.542 -10.668 1.00100.00 7 ATOM 303 N ASP 865 24.599 58.333 -12.412 1.00100.00 7 ATOM 304 CA ASP 865 25.670 57.988 -13.347 1.00100.00 6 ATOM 305 CB ASP 865 25.951 56.494 -13.073 1.00100.00 6 ATOM 306 C ASP 865 25.951 56.494 -13.073 1.00100.00 6 ATOM 307 O ASP 865 25.554 54.713 -11.089 1.00 87.31 6 ATOM 309 CA HIS 866 25.554 54.713 -11.357 1.00100.00 6 ATOM 309 CA HIS 866 25.455 56.080 -11.889 1.00 99.63 7 ATOM 310 CB HIS 866 25.554 54.713 -11.357 1.00100.00 6 ATOM 311 CG HIS 866 23.472 54.858 -8.543 1.00100.00 6 ATOM 312 CD2 HIS 866 23.472 54.858 -8.543 1.00100.00 6 ATOM 313 ND HIS 866 23.472 54.858 -8.543 1.00100.00 6 ATOM 314 CE HIS 866 23.472 54.858 -8.543 1.00100.00 6 ATOM 315 NE2 HIS 866 23.599 53.339 -10.964 1.00100.00 6 ATOM 316 C RAG 867 23.472 54.858 -8.543 1.00100.00 6 ATOM 317 O HIS 866 23.599 57.002 -8.769 1.00100.00 6 ATOM 318 N ARG 867 23.472 54.858 -8.543 1.00100.00 6 ATOM 319 CA ARG 867 23.472 54.858 -8.543 1.00100.00 6 ATOM 310 CB ARG 867 23.472 54.858 -8.543 1.00100.00 6 ATOM 311 CG HIS 866 23.599 57.002 -8.769 1.00100.00 6 ATOM 312 CD2 HIS 866 23.599 57.002 -8.769 1.00100.00 6 ATOM 313 ND1 HIS 866 23.599 57.002 -8.769 1.00100.00 6 ATOM 314 CB HIS 866 23.599 57.002 -8.769 1.00100.00 6 ATOM 315 NA RG 867 23.470 55.571 -13.954 1.00100	ATOM	286	NH2	ARG	856	15.715	59.537			
ATOM 289 N MET 857 17.443 52.378 -5.338 1.00100.00 7 ATOM 290 CA MET 857 18.288 53.750 -3.743 1.00100.00 6 ATOM 291 CB MET 857 18.288 53.750 -3.743 1.00100.00 6 ATOM 291 CB MET 857 18.288 53.750 -3.743 1.00100.00 6 ATOM 293 SD MET 857 17.994 54.017 -1.306 1.00100.00 6 ATOM 294 CE MET 857 20.116 53.447 0.204 1.00100.00 6 ATOM 295 C MET 857 19.646 53.843 -4.450 1.00100.00 6 ATOM 295 C MET 857 19.646 53.843 -4.450 1.00100.00 6 ATOM 296 O MET 857 19.646 53.843 -4.450 1.00100.00 6 ATOM 297 OXT MET 857 19.839 54.838 -5.196 1.00 82.10 8 ATOM 297 OXT MET 857 19.839 54.838 -5.196 1.00 82.10 8 ATOM 299 C ASP 864 22.499 59.975 -11.088 1.00 55.87 6 ATOM 300 O ASP 864 22.981 58.052 -13.940 1.00100.00 6 ATOM 301 N ASP 864 22.263 57.542 -10.688 1.00100.00 7 ATOM 302 CA ASP 864 22.263 57.542 -10.688 1.00100.00 7 ATOM 303 N ASP 865 24.599 58.333 -12.412 1.00100.00 6 ATOM 304 CA ASP 865 25.670 57.988 -13.347 1.00100.00 6 ATOM 305 CB ASP 865 25.670 57.988 -13.347 1.00100.00 6 ATOM 306 C ASP 865 25.551 56.494 -13.073 1.00100.00 6 ATOM 307 O ASP 865 25.551 56.494 -13.073 1.00100.00 6 ATOM 308 N HIS 866 25.554 54.713 -11.889 1.00 87.31 6 ATOM 309 CA HIS 866 25.554 54.713 -11.889 1.00 99.63 7 ATOM 310 CB HIS 866 25.554 54.713 -11.889 1.00 99.63 7 ATOM 310 CB HIS 866 23.472 54.858 -8.543 1.00100.00 6 ATOM 311 CB HIS 866 23.599 57.002 -8.065 1.00100.00 6 ATOM 310 CB HIS 866 23.599 57.002 -8.065 1.00100.00 6 ATOM 311 CB HIS 866 23.599 57.002 -8.065 1.00100.00 6 ATOM 312 CD2 HIS 866 23.599 57.002 -8.065 1.00100.00 6 ATOM 313 ND1 HIS 866 23.599 57.002 -8.065 1.00100.00 6 ATOM 316 C ARG 867 22.115 55.888 -7.915 1.00100.00 6 ATOM 317 O HIS 866 23.599 57.002 -8.065 1.00100.00 6 ATOM 318 N ARG 867 22.811 55.888 -7.915 1.00100.00 6 ATOM 310 CB HIS 866 23.599 57.002 -8.065 1.00100.00 6 ATOM 311 CG HIS 866 23.599 57.002 -8.065 1.00100.00 6 ATOM 312 CD2 HIS 866 23.599 57.002 -8.065 1.00100.00 6 ATOM 313 ND1 HIS 866 23.599 57.002 -8.065 1.00100.00 6 ATOM 320 CB ARG 867 22.419 54.106 -13.405 1.00100.00 6 ATOM 321 CG ARG 867 21.900 55.371 -13.954 1.	MOTA	287	C	ARG	856	16.284	52.382			
ATOM 290 CA MET 857 18.288 53.750 -3.743 1.00100.00 6 ATOM 291 CB MET 857 18.449 53.097 -2.384 1.00100.00 6 ATOM 292 CG MET 857 18.449 53.097 -2.384 1.00100.00 6 ATOM 293 SD MET 857 18.352 53.350 0.258 1.00100.00 6 ATOM 294 CE MET 857 20.116 53.447 0.204 1.00100.00 6 ATOM 295 C MET 857 20.116 53.447 0.204 1.00100.00 6 ATOM 295 C MET 857 20.497 52.937 -4.253 1.00100.00 6 ATOM 296 O MET 857 19.646 53.843 -4.450 1.00100.00 6 ATOM 297 OXT MET 857 19.839 54.838 -5.196 1.00200.00 6 ATOM 299 CX MET 857 20.497 52.937 -4.253 1.00100.00 6 ATOM 299 CX ASP 864 22.499 59.975 -11.088 1.00 55.87 6 ATOM 299 C ASP 864 22.981 58.052 -13.940 1.00100.00 8 ATOM 300 O ASP 864 22.981 58.052 -13.940 1.00100.00 6 ATOM 301 N ASP 864 22.263 57.542 -10.688 1.00100.00 7 ATOM 302 CA ASP 864 22.263 58.615 -11.734 1.00100.00 6 ATOM 303 N ASP 865 24.599 58.333 -12.412 1.00100.00 6 ATOM 304 CA ASP 865 25.670 57.988 -13.347 1.00100.00 6 ATOM 305 CB ASP 865 26.925 58.842 -13.098 1.00 87.31 6 ATOM 306 C ASP 865 25.551 56.494 -13.098 1.00 87.31 6 ATOM 307 O ASP 865 25.551 56.494 -13.098 1.00 87.31 6 ATOM 308 N HIS 866 25.554 54.713 -11.357 1.00100.00 6 ATOM 309 CA HIS 866 25.554 54.713 -11.357 1.00100.00 6 ATOM 310 CB HIS 866 25.554 54.713 -11.357 1.00100.00 6 ATOM 310 CB HIS 866 24.600 55.378 59.81 1.00100.00 6 ATOM 310 CB HIS 866 24.593 56.720 -8.769 1.00100.00 6 ATOM 310 CB HIS 866 24.593 56.720 -8.769 1.00100.00 6 ATOM 310 CB HIS 866 24.593 56.720 -8.769 1.00100.00 6 ATOM 310 CB HIS 866 24.593 56.720 -8.769 1.00100.00 6 ATOM 310 CB HIS 866 24.593 56.720 -8.769 1.00100.00 6 ATOM 310 CB HIS 866 25.554 55.781 -13.571 1.00100.00 6 ATOM 310 CB HIS 866 25.554 55.785 1-71.715 1.00100.00 6 ATOM 310 CB HIS 866 25.554 55.785 1-71.715 1.00100.00 6 ATOM 310 CB HIS 866 25.554 55.785 1-71.715 1.00100.00 6 ATOM 310 CB HIS 866 25.554 55.785 1-71.715 1.00100.00 6 ATOM 310 CB HIS 866 25.554 55.785 1-71.715 1.00100.00 6 ATOM 310 CB HIS 866 25.554 55.785 1-71.715 1.00100.00 6 ATOM 310 CB ARG 867 21.700 55.373 1.713.954 1.00100.00 6 ATOM 320 CB ARG 867 21.700 55.37	MOTA	288	0	ARG	856	16.269	52.404			
ATOM 291 CB MET 857 18.449 53.097 -2.384 1.00100.00 6 ATOM 292 CG MET 857 17.994 54.017 -1.306 1.00100.00 6 ATOM 293 SD MET 857 18.552 53.350 0.258 1.00100.00 16 ATOM 294 CE MET 857 19.646 53.447 0.204 1.00100.00 6 ATOM 295 C MET 857 19.646 53.843 -4.450 1.00100.00 6 ATOM 296 O MET 857 19.646 53.843 -4.450 1.00100.00 6 ATOM 297 OXT MET 857 19.839 54.838 -5.196 1.00 82.10 8 ATOM 298 CB ASP 864 22.499 59.975 -11.088 1.00 82.10 8 ATOM 300 C ASP 864 22.2499 59.975 -11.088 1.00 55.87 6 ATOM 300 O ASP 864 22.263 58.515 -12.794 1.00100.00 6 ATOM 301 N ASP 864 22.263 57.542 -10.688 1.00100.00 7 ATOM 302 CA ASP 864 22.263 57.542 -10.688 1.00100.00 7 ATOM 303 N ASP 865 24.599 58.333 -12.412 1.00100.00 6 ATOM 304 CA ASP 865 25.670 57.988 -13.347 1.00100.00 6 ATOM 305 CB ASP 865 26.925 58.842 -13.098 1.00100.00 6 ATOM 306 C ASP 865 25.951 56.494 -13.073 1.00100.00 6 ATOM 307 O ASP 865 25.951 56.494 -13.073 1.00100.00 6 ATOM 308 N HIS 866 25.485 56.080 -11.889 1.00 99.63 7 ATOM 309 CA HIS 866 25.554 54.713 -11.1357 1.00 99.63 7 ATOM 301 CB HIS 866 25.554 54.713 -11.1357 1.00 99.63 7 ATOM 302 CB RB 864 24.600 55.378 -9.079 1.00100.00 6 ATOM 310 CB HIS 866 25.554 54.713 -11.357 1.00 99.63 7 ATOM 311 CG HIS 866 24.600 55.378 -9.079 1.00100.00 6 ATOM 312 CD HIS 866 24.599 58.339 -10.964 1.00100.00 7 ATOM 313 ND1 HIS 866 25.554 54.713 -11.357 1.00 99.63 7 ATOM 314 CE HIS 866 24.600 55.378 -9.079 1.00100.00 6 ATOM 315 CB ARG 867 22.419 55.838 -7.915 1.00100.00 7 ATOM 316 C ARG 867 22.419 55.838 -7.915 1.00100.00 7 ATOM 317 C HIS 866 25.554 54.713 -11.357 1.00 99.63 6 ATOM 319 CA ARG 867 22.419 55.439 -17.837 1.00100.00 7 ATOM 320 CB ARG 867 22.419 55.439 -17.837 1.00100.00 6 ATOM 321 CG ARG 867 22.419 55.439 -17.837 1.00100.00 7 ATOM 322 CD ARG 867 22.419 55.439 -17.837 1.00100.00 7 ATOM 322 CD ARG 867 23.496 55.654 -17.319 1.00100.00 7 ATOM 323 NE ARG 867 22.419 55.439 -17.837 1.00100.00 7 ATOM 324 CZ ARG 867 22.419 55.439 -17.837 1.00100.00 7 ATOM 325 NH1 ARG 867 23.496 55.628 -19.145 1.00100.00 7 ATOM 326 NH2 ARG 867 23.496 55	ATOM	289	N	MET	857	17.443	52.378			
ATOM 292 CG MET 857 17.994 54.017 -1.306 1.00100.00 6 ATOM 293 SD MET 857 18.352 53.350 0.258 1.00100.00 16 ATOM 294 CE MET 857 19.646 53.843 -4.450 1.00100.00 6 ATOM 295 C MET 857 20.497 52.937 -4.253 1.00100.00 6 ATOM 296 O MET 857 20.497 52.937 -4.253 1.00100.00 6 ATOM 297 OXT MET 857 19.839 54.838 -5.196 1.00 82.10 8 ATOM 298 CE ASP 864 22.499 59.975 -11.088 1.00 55.87 6 ATOM 299 C ASP 864 23.323 58.318 -12.792 1.00100.00 6 ATOM 300 O ASP 864 22.981 58.052 -13.940 1.00100.00 6 ATOM 301 N ASP 864 22.263 57.542 -10.688 1.00100.00 7 ATOM 302 CA ASP 864 22.263 57.542 -10.688 1.00100.00 7 ATOM 303 N ASP 865 24.599 58.333 -12.412 1.00100.00 6 ATOM 304 CA ASP 865 25.670 57.988 -13.347 1.00100.00 6 ATOM 305 CB ASP 865 25.951 56.494 -13.073 1.00100.00 6 ATOM 306 C ASP 865 25.951 56.494 -13.073 1.00100.00 6 ATOM 307 O ASP 865 25.951 56.494 -13.073 1.00100.00 6 ATOM 308 N HIS 866 25.485 56.800 -11.889 1.00 99.63 7 ATOM 300 CB HIS 866 25.554 54.713 -11.357 1.00 99.63 6 ATOM 310 CB HIS 866 25.554 54.713 -11.357 1.00 99.63 6 ATOM 310 CB HIS 866 23.472 54.888 -8.543 1.00100.00 6 ATOM 311 CG HIS 866 23.472 54.888 -9.079 1.00100.00 6 ATOM 313 ND1 HIS 866 23.599 57.002 -8.065 1.00100.00 7 ATOM 314 CEI HIS 866 23.472 54.888 -9.079 1.00100.00 6 ATOM 315 NE2 HIS 866 22.811 55.888 -7.915 1.00100.00 6 ATOM 316 C HIS 866 24.599 55.378 -9.079 1.00100.00 6 ATOM 317 O HIS 866 24.599 57.002 -8.065 1.00100.00 6 ATOM 318 ND HIS 866 24.599 57.002 -8.065 1.00100.00 7 ATOM 310 CB HIS 866 24.599 57.002 -8.065 1.00100.00 7 ATOM 311 CG HIS 866 24.595 55.770 -7.877 1.00100.00 6 ATOM 312 CD2 HIS 866 25.554 54.713 -11.357 1.00100.00 7 ATOM 313 CD HIS 866 24.599 57.002 -8.065 1.00100.00 7 ATOM 314 CEI HIS 866 24.599 55.378 -9.079 1.00100.00 6 ATOM 315 NE2 HIS 866 24.595 55.770 -7.879 1.00100.00 7 ATOM 320 CB ARG 867 22.419 55.480 -11.715 1.00100.00 7 ATOM 321 CG ARG 867 23.460 55.371 -13.454 1.00100.00 7 ATOM 322 CD ARG 867 23.460 55.859 -17.219 1.00100.00 7 ATOM 324 CZ ARG 867 23.460 55.628 -19.145 1.00100.00 7 ATOM 325 NH ARG 867 23.460 55.628	MOTA	290	CA	MET	857	18.288	53.750			
ATOM 293 SD MET 857 18.352 53.350 0.258 1.00100.00 16 ATOM 294 CE MET 857 20.116 53.447 0.204 1.00100.00 6 ATOM 295 C MET 857 19.646 53.843 -4.450 1.00100.00 6 ATOM 296 O MET 857 19.646 53.843 -4.450 1.00100.00 6 ATOM 297 OXT MET 857 19.839 54.838 -5.196 1.00 82.10 8 ATOM 298 CB ASP 864 22.499 59.975 -11.088 1.00 55.87 6 ATOM 299 C ASP 864 22.291 58.052 -13.940 1.00100.00 6 ATOM 300 O ASP 864 22.263 57.542 -10.688 1.00100.00 7 ATOM 301 N ASP 864 22.263 57.542 -10.688 1.00100.00 7 ATOM 302 CA ASP 865 22.263 58.615 -11.734 1.00100.00 7 ATOM 303 N ASP 865 25.670 57.988 -13.347 1.00100.00 6 ATOM 305 CB ASP 865 25.670 57.988 -13.347 1.00100.00 6 ATOM 306 C ASP 865 25.670 57.988 -13.347 1.00100.00 6 ATOM 307 O ASP 865 26.925 58.842 -13.098 1.00 87.31 6 ATOM 308 N HIS 866 25.554 56.080 -11.889 1.00 87.31 6 ATOM 309 CA HIS 866 25.554 54.713 -11.357 1.00100.00 6 ATOM 310 CB HIS 866 25.554 54.713 -11.357 1.00100.00 6 ATOM 310 CB HIS 866 25.554 54.726 -9.827 1.00100.00 6 ATOM 311 CG HIS 866 23.472 54.858 -8.543 1.00100.00 6 ATOM 312 CD2 HIS 866 23.472 54.858 -8.543 1.00100.00 6 ATOM 313 ND1 HIS 866 23.595 55.7888 -7.915 1.00100.00 6 ATOM 314 CG HIS 866 23.595 55.700 -8.769 1.00100.00 6 ATOM 315 NE2 HIS 866 23.595 55.700 -8.769 1.00100.00 6 ATOM 310 CB HIS 866 23.595 57.388 -7.915 1.00100.00 6 ATOM 311 CG HIS 866 23.595 57.388 -7.915 1.00100.00 6 ATOM 312 CD2 HIS 866 23.595 57.389 -7.902 1.00100.00 6 ATOM 313 ND1 HIS 866 23.595 57.389 -7.915 1.00100.00 6 ATOM 314 CG HIS 866 23.595 57.391 -7.002 8.055 1.00100.00 6 ATOM 315 NE2 HIS 866 23.595 57.339 -10.964 1.00100.00 7 ATOM 316 C ARG 867 22.419 55.425 1.00100.00 6 ATOM 317 O ARG 867 22.419 55.435 -1.294 1.00100.00 7 ATOM 320 CB ARG 867 22.419 55.439 -17.837 1.00100.00 6 ATOM 321 CG ARG 867 22.419 55.429 -17.837 1.00100.00 7 ATOM 322 CD ARG 867 23.460 55.628 -17.219 1.00100.00 7 ATOM 323 NE ARG 867 22.419 55.439 -17.837 1.00100.00 7 ATOM 324 CZ ARG 867 22.419 55.439 -17.837 1.00100.00 7 ATOM 325 NH1 ARG 867 22.524 53.015 -14.460 1.00100.00 7 ATOM 326 NH2 ARG 867 22.524 53.01	ATOM	291	CB	MET	857	18.449	53.097			
ATOM 294 CE MET 857	ATOM	292	CG	MET	857	17.994	54.017			
ATOM 295 C MET 857 19.646 53.843 -4.450 1.00100.00 6 ATOM 296 O MET 857 19.646 53.843 -4.450 1.00100.00 8 ATOM 297 OXT MET 857 19.839 54.838 -5.196 1.00 82.10 8 TER ATOM 298 CB ASP 864 22.499 59.975 -11.088 1.00 55.87 6 ATOM 300 O ASP 864 22.981 58.052 -13.940 1.00100.00 8 ATOM 301 N ASP 864 22.263 57.542 -10.668 1.00100.00 6 ATOM 302 CA ASP 864 22.263 57.542 -10.668 1.00100.00 7 ATOM 303 N ASP 865 24.599 58.333 -12.412 1.00100.00 6 ATOM 304 CA ASP 865 24.599 58.333 -12.412 1.00100.00 6 ATOM 305 CB ASP 865 25.670 57.988 -13.347 1.00100.00 6 ATOM 306 C ASP 865 25.951 56.494 -13.073 1.00100.00 6 ATOM 307 O ASP 865 25.951 56.494 -13.073 1.00100.00 6 ATOM 308 N HIS 866 25.485 56.080 -11.889 1.00 99.63 6 ATOM 309 CA HIS 866 25.554 54.713 -11.357 1.00 99.63 6 ATOM 310 CB HIS 866 25.554 54.713 -11.357 1.00 99.63 6 ATOM 310 CB HIS 866 24.599 56.720 -8.769 1.00100.00 6 ATOM 311 CG HIS 866 23.472 54.858 -8.543 1.00100.00 6 ATOM 312 CD2 HIS 866 23.472 54.858 -8.543 1.00100.00 6 ATOM 313 ND1 HIS 866 24.599 57.002 -8.065 1.00100.00 6 ATOM 314 CEI HIS 866 23.599 57.002 -8.065 1.00100.00 6 ATOM 315 NE2 HIS 866 23.599 57.002 -8.065 1.00100.00 6 ATOM 316 C HIS 866 23.599 57.002 -8.065 1.00100.00 6 ATOM 317 O HIS 866 23.599 53.339 -10.964 1.00100.00 6 ATOM 319 CA ARG 867 21.700 55.371 -13.954 1.00100.00 6 ATOM 310 CB ARG 867 22.419 54.106 -13.405 1.00100.00 6 ATOM 310 CB ARG 867 21.700 55.371 -13.954 1.00100.00 6 ATOM 312 CD ARG 867 21.700 55.371 -13.954 1.00100.00 6 ATOM 313 NA ARG 867 22.419 54.106 -13.405 1.00100.00 7 ATOM 320 CB ARG 867 22.419 54.106 -13.405 1.00100.00 7 ATOM 321 CG ARG 867 22.419 55.628 -19.145 1.00100.00 7 ATOM 322 CD ARG 867 22.419 55.628 -19.145 1.00100.00 7 ATOM 323 NE ARG 867 22.494 55.628 -19.145 1.00100.00 7 ATOM 324 CZ ARG 867 22.494 55.628 -19.145 1.00100.00 7 ATOM 325 NH1 ARG 867 22.524 53.015 -14.480 1.00100.00 7 ATOM 326 NH2 ARG 867 22.524 53.015 -14.480 1.00100.00 7 ATOM 327 C ARG 867 22.524 53.015 -14.480 1.00100.00 7 ATOM 328 N ARG 867 22.524 53.015 -14.480 1.00100.00 7	ATOM	293	SD	MET	857	18.352	53.350			
ATOM 296 C MET 857 19.646 53.843 -4.450 1.00100.00 6 ATOM 296 O MET 857 20.497 52.937 -4.253 1.00100.00 8 RATOM 297 OXT MET 857 19.839 54.838 -5.196 1.00 82.10 8 TER ATOM 298 CB ASP 864 22.499 59.975 -11.088 1.00 55.87 6 ATOM 300 O ASP 864 22.981 58.052 -13.940 1.00100.00 6 ATOM 301 N ASP 864 22.263 57.542 -10.688 1.00100.00 7 ATOM 302 CA ASP 864 22.263 58.615 -11.734 1.00100.00 7 ATOM 303 N ASP 865 24.599 58.333 -12.412 1.00100.00 6 ATOM 305 CB ASP 865 24.599 58.333 -12.412 1.00100.00 6 ATOM 305 CB ASP 865 25.670 57.988 -13.347 1.00100.00 6 ATOM 307 O ASP 865 25.951 56.494 -13.073 1.00100.00 6 ATOM 308 N HIS 866 25.5485 56.080 -11.889 1.00 99.63 7 ATOM 309 CA HIS 866 25.485 56.080 -11.889 1.00 99.63 7 ATOM 310 CB HIS 866 25.485 56.080 -11.889 1.00 99.63 7 ATOM 310 CB HIS 866 25.465 54.726 -9.827 1.00100.00 6 ATOM 310 CB HIS 866 23.472 54.858 -8.543 1.00100.00 6 ATOM 310 CB HIS 866 23.472 54.858 -8.543 1.00100.00 6 ATOM 310 CB HIS 866 23.472 54.858 -8.543 1.00100.00 6 ATOM 310 CB HIS 866 23.509 57.002 -8.065 1.00100.00 6 ATOM 313 ND1 HIS 866 23.509 57.002 -8.065 1.00100.00 6 ATOM 313 ND1 HIS 866 23.509 57.002 -8.065 1.00100.00 6 ATOM 313 ND1 HIS 866 23.509 57.002 -8.065 1.00100.00 6 ATOM 314 CE1 HIS 866 23.509 57.002 -8.065 1.00100.00 6 ATOM 315 NE2 HIS 866 24.500 55.378 -9.079 1.00100.00 6 ATOM 315 NE2 HIS 866 24.509 55.373 -1.1.3954 1.00100.00 6 ATOM 310 CB ATOM 310 CB HIS 866 24.509 55.373 -1.00100.00 6 ATOM 315 NE2 HIS 866 24.509 55.373 -1.00100.00 6 ATOM 315 NE2 HIS 866 24.509 55.373 -1.00100.00 6 ATOM 315 NE2 HIS 866 24.509 55.373 -1.00100.00 6 ATOM 317 O HIS 866 24.509 55.373 -1.00100.00 6 ATOM 318 N ARG 867 22.419 54.106 -13.405 1.00100.00 7 ATOM 320 CB ARG 867 22.419 55.439 -17.219 1.00100.00 7 ATOM 320 CB ARG 867 22.419 55.439 -17.219 1.00100.00 7 ATOM 320 CB ARG 867 22.419 55.439 -17.219 1.00100.00 7 ATOM 322 CD ARG 867 22.419 55.439 -17.219 1.00100.00 7 ATOM 324 CZ ARG 867 22.419 55.439 -17.219 1.00100.00 7 ATOM 325 NH1 ARG 867 22.4940 55.628 -19.145 1.00100.00 7 ATOM 328 N ARG 867 22.524 53.015 -14	MOTA	294	CE	MET	857	20.116	53.447	0.204		
ATOM 297 OXT MET 857 19.839 54.838 -5.196 1.00100.00 8 ATOM 297 OXT MET 857 19.839 54.638 -5.196 1.00 82.10 8 TER ATOM 298 CB ASP 864 22.499 59.975 -11.088 1.00 55.87 6 ATOM 300 O ASP 864 22.981 58.052 -13.940 1.00100.00 6 ATOM 301 N ASP 864 22.263 57.542 -10.688 1.00100.00 7 ATOM 302 CA ASP 864 22.263 57.542 -10.688 1.00100.00 7 ATOM 303 N ASP 865 24.599 58.333 -12.412 1.00100.00 6 ATOM 303 N ASP 865 24.599 58.333 -12.412 1.00100.00 6 ATOM 305 CB ASP 865 25.670 57.988 -13.347 1.00100.00 6 ATOM 306 C ASP 865 26.925 58.842 -13.098 1.00 87.31 6 ATOM 307 O ASP 865 26.537 55.781 -13.098 1.00 87.31 6 ATOM 308 N HIS 866 25.485 56.080 -11.889 1.00 99.63 6 ATOM 309 CA HIS 866 25.554 54.712 -11.889 1.00 99.63 7 ATOM 310 CB HIS 866 25.554 54.713 -11.357 1.00 99.63 7 ATOM 310 CB HIS 866 25.728 54.726 -9.827 1.00100.00 6 ATOM 311 CG HIS 866 23.472 54.858 -8.543 1.00100.00 6 ATOM 312 CD2 HIS 866 24.593 55.888 -7.915 1.00100.00 6 ATOM 313 ND1 HIS 866 24.593 55.780 -8.769 1.00100.00 6 ATOM 314 CEI HIS 866 23.509 57.002 -8.769 1.00100.00 7 ATOM 315 NE2 HIS 866 24.593 55.858 -7.00 -8.769 1.00100.00 6 ATOM 317 O HIS 866 23.599 53.339 -10.964 1.00 99.63 6 ATOM 318 N ARG 867 23.472 54.858 -8.543 1.00100.00 7 ATOM 318 N ARG 867 23.472 54.858 -8.543 1.00100.00 6 ATOM 310 CB ARG 867 23.472 54.858 -8.543 1.00100.00 6 ATOM 312 CD ARG 867 23.472 54.858 -8.543 1.00100.00 6 ATOM 313 ND1 HIS 866 24.593 55.720 -8.769 1.00100.00 7 ATOM 314 CEI HIS 866 24.593 55.858 -7.915 1.00100.00 6 ATOM 315 NE2 HIS 866 24.594 55.589 -17.219 1.00100.00 6 ATOM 316 C ARG 867 23.460 55.680 -15.799 1.00100.00 6 ATOM 320 CB ARG 867 24.496 55.498 -17.837 1.00100.00 6 ATOM 321 CG ARG 867 24.496 55.498 -17.837 1.00100.00 6 ATOM 322 CD ARG 867 22.419 54.498 -17.837 1.00100.00 7 ATOM 323 NE ARG 867 22.499 55.439 -17.837 1.00100.00 7 ATOM 324 CZ ARG 867 24.794 55.439 -17.837 1.00100.00 7 ATOM 325 NH1 ARG 867 22.524 53.015 -14.480 1.00100.00 7 ATOM 326 NH2 ARG 867 22.524 53.015 -14.480 1.00100.00 7 ATOM 328 NH2 ARG 867 22.524 53.015 -14.480 1.00100.00 7 ATOM 329 N AS		295	C	MET	857	19.646	53.843			
ATOM		296	0	MET	857	20.497	52.937	-4.253		
TER ATOM 298 CB ASP 864 22.499 59.975 -11.088 1.00 55.87 6 ATOM 299 C ASP 864 23.323 58.318 -12.792 1.00100.00 6 ATOM 300 O ASP 864 22.263 57.542 -10.688 1.00100.00 7 ATOM 301 N ASP 864 22.263 57.542 -10.688 1.00100.00 7 ATOM 302 CA ASP 865 22.63 58.615 -11.734 1.00100.00 6 ATOM 303 N ASP 865 24.599 58.333 -12.412 1.00100.00 6 ATOM 304 CA ASP 865 25.670 57.988 -13.347 1.00100.00 6 ATOM 305 CB ASP 865 26.925 58.842 -13.098 1.0087.31 6 ATOM 306 C ASP 865 25.951 56.494 -13.073 1.00100.00 6 ATOM 307 O ASP 865 25.951 56.494 -13.073 1.00100.00 6 ATOM 308 N HIS 866 25.485 56.080 -11.889 1.00 99.63 6 ATOM 309 CA HIS 866 25.554 54.713 -11.357 1.00 99.63 6 ATOM 310 CB HIS 866 25.554 54.713 -11.357 1.00 99.63 6 ATOM 310 CB HIS 866 23.472 54.858 -8.543 1.00100.00 6 ATOM 311 CG HIS 866 23.472 54.858 -8.543 1.00100.00 6 ATOM 312 CD2 HIS 866 23.509 57.002 -8.065 1.00100.00 6 ATOM 313 ND1 HIS 866 24.593 56.720 -8.769 1.00100.00 6 ATOM 314 CEI HIS 866 23.509 57.002 -8.065 1.00100.00 6 ATOM 315 NE2 HIS 866 24.196 54.120 -11.715 1.00 99.63 6 ATOM 316 C HIS 866 24.196 54.120 -11.715 1.00 99.63 6 ATOM 317 O HIS 866 24.196 54.120 -11.715 1.00 99.63 6 ATOM 318 N ARG 867 23.472 54.858 -8.543 1.00100.00 6 ATOM 319 CA ARG 867 22.419 54.106 -13.405 1.00100.00 6 ATOM 310 CB ARG 867 22.419 54.106 -13.405 1.00100.00 6 ATOM 312 CD ARG 867 22.419 54.106 -13.405 1.00100.00 7 ATOM 313 ND ARG 867 23.460 55.680 -15.790 1.00100.00 7 ATOM 320 CB ARG 867 22.419 54.106 -13.405 1.00100.00 7 ATOM 321 CG ARG 867 22.419 54.106 -13.405 1.00100.00 7 ATOM 322 CD ARG 867 22.419 55.439 -17.219 1.00100.00 6 ATOM 323 NE ARG 867 22.419 55.439 -17.219 1.00100.00 6 ATOM 325 NH1 ARG 867 22.419 55.439 -17.219 1.00100.00 7 ATOM 326 NH2 ARG 867 22.419 55.439 -17.219 1.00100.00 7 ATOM 327 C ARG 867 22.490 55.628 -19.145 1.00100.00 7 ATOM 328 O ARG 867 22.524 53.015 -14.480 1.00100.00 7 ATOM 329 N ASP 868 23.225 51.934 -14.164 1.00100.00 7 ATOM 329 N ASP 868 23.225 51.934 -14.164 1.00100.00 7			OXT	MET	857	19.839	54.838	-5.196	1.00 82.10	8
ATOM 298 CB ASP 864 22.499 59.975 -11.088 1.00 55.87 6 ATOM 299 C ASP 864 23.323 58.318 -12.792 1.00100.00 6 ATOM 300 O ASP 864 22.981 58.052 -13.940 1.00100.00 7 ATOM 301 N ASP 864 22.263 57.542 -10.688 1.00100.00 7 ATOM 302 CA ASP 864 22.263 57.542 -10.688 1.00100.00 7 ATOM 303 N ASP 865 24.599 58.333 -12.412 1.00100.00 6 ATOM 304 CA ASP 865 25.670 57.988 -13.347 1.00100.00 6 ATOM 305 CB ASP 865 25.670 57.988 -13.347 1.00100.00 6 ATOM 306 C ASP 865 25.951 56.494 -13.073 1.00100.00 6 ATOM 307 O ASP 865 25.951 56.494 -13.073 1.00100.00 6 ATOM 308 N HIS 866 25.485 56.080 -11.889 1.00 99.63 7 ATOM 309 CA HIS 866 25.554 54.713 -11.357 1.00 99.63 7 ATOM 310 CB HIS 866 25.728 54.726 -9.827 1.00100.00 6 ATOM 311 CG HIS 866 24.600 55.378 -9.079 1.00100.00 6 ATOM 312 CD2 HIS 866 23.472 54.858 -8.543 1.00100.00 6 ATOM 314 CE1 HIS 866 23.472 54.858 -8.543 1.00100.00 6 ATOM 315 NE2 HIS 866 24.593 56.720 -8.769 1.00100.00 6 ATOM 316 C HIS 866 23.472 54.858 -8.543 1.00100.00 6 ATOM 317 O HIS 866 23.599 57.002 -8.065 1.00100.00 7 ATOM 318 N ARG 867 23.599 53.339 -10.964 1.00 99.63 8 ATOM 319 CA ARG 867 23.599 53.339 -10.964 1.00 99.63 8 ATOM 319 CA ARG 867 23.732 54.498 -12.904 1.00100.00 6 ATOM 319 CA ARG 867 23.460 55.721 -13.954 1.00100.00 6 ATOM 320 CB ARG 867 23.460 55.721 -13.954 1.00100.00 6 ATOM 321 CG ARG 867 23.460 55.721 -15.445 1.00100.00 6 ATOM 322 CD ARG 867 23.460 55.721 -15.445 1.00100.00 6 ATOM 323 NE ARG 867 23.460 55.680 -15.790 1.00100.00 6 ATOM 322 CD ARG 867 23.460 55.680 -15.790 1.00100.00 7 ATOM 324 CZ ARG 867 23.460 55.680 -15.790 1.00100.00 7 ATOM 325 NH1 ARG 867 25.733 54.810 -17.137 1.00100.00 7 ATOM 327 C ARG 867 25.733 54.810 -17.137 1.00100.00 7 ATOM 328 O ARG 867 22.524 53.015 -14.480 1.00100.00 7 ATOM 329 N ASP 868 23.393 50.867 -15.146 1.00100.00 6 ATOM 320 N ASP 868 23.393 50.867 -15.146 1.00100.00 6										
ATOM		298	CB	ASP	864	22.499				
ATOM 300 O ASP 864			C	ASP	864	23.323				
ATOM 301 N ASP 864 22.263 57.542 -10.688 1.00100.00 7 ATOM 302 CA ASP 864 22.263 58.615 -11.734 1.00100.00 6 ATOM 303 N ASP 865 24.599 58.333 -12.412 1.00100.00 7 ATOM 304 CA ASP 865 25.670 57.988 -13.347 1.00100.00 6 ATOM 305 CB ASP 865 25.670 57.988 -13.347 1.00100.00 6 ATOM 306 C ASP 865 25.951 56.494 -13.073 1.00100.00 8 ATOM 307 O ASP 865 26.537 55.781 -13.902 1.00100.00 8 ATOM 308 N HIS 866 25.485 56.080 -11.889 1.00 99.63 7 ATOM 309 CA HIS 866 25.554 54.713 -11.357 1.00 99.63 6 ATOM 310 CB HIS 866 25.728 54.726 -9.827 1.00100.00 6 ATOM 311 CG HIS 866 23.472 54.858 -8.543 1.00100.00 6 ATOM 312 CD2 HIS 866 23.472 54.858 -8.543 1.00100.00 6 ATOM 313 ND1 HIS 866 23.509 57.002 -8.769 1.00100.00 6 ATOM 315 NE2 HIS 866 24.196 54.120 -11.715 1.00 99.63 6 ATOM 316 C HIS 866 24.196 54.120 -11.715 1.00 99.63 6 ATOM 317 O HIS 866 24.196 54.120 -11.715 1.00 99.63 6 ATOM 318 N ARG 867 23.732 54.498 -12.904 1.00100.00 7 ATOM 320 CB ARG 867 21.700 55.371 -13.954 1.00100.00 6 ATOM 321 CG ARG 867 21.700 55.371 -13.954 1.00100.00 6 ATOM 322 CD ARG 867 21.971 55.721 -15.445 1.00100.00 6 ATOM 322 CD ARG 867 21.971 55.721 -15.445 1.00100.00 6 ATOM 323 NE ARG 867 23.460 55.680 -17.219 1.00100.00 6 ATOM 324 CZ ARG 867 24.794 55.439 -17.237 1.00100.00 7 ATOM 325 NH1 ARG 867 24.794 55.439 -17.337 1.00100.00 7 ATOM 326 NH2 ARG 867 24.794 55.628 -19.145 1.00100.00 7 ATOM 327 C ARG 867 24.794 55.439 -17.337 1.00100.00 7 ATOM 328 O ARG 867 24.794 55.439 -17.337 1.00100.00 7 ATOM 329 N ASP 868 23.255 51.934 -14.164 1.00100.00 7 ATOM 329 N ASP 868 23.255 51.934 -14.164 1.00100.00 7 ATOM 329 N ASP 868 23.255 51.934 -14.164 1.00100.00 7 ATOM 329 N ASP 868 23.393 50.867 -15.1464 1.00100.00 7			0	ASP	864	22.981	58.052	-13.940	_ :	
ATOM 302 CA ASP 864 22.263 58.615 -11.734 1.00100.00 6 ATOM 303 N ASP 865 24.599 58.333 -12.412 1.00100.00 7 ATOM 304 CA ASP 865 25.670 57.988 -13.347 1.00100.00 6 ATOM 305 CB ASP 865 26.925 58.842 -13.098 1.00 87.31 6 ATOM 306 C ASP 865 25.951 56.494 -13.073 1.00100.00 6 ATOM 307 O ASP 865 25.951 56.494 -13.073 1.00100.00 8 ATOM 308 N HIS 866 25.485 56.080 -11.889 1.00 99.63 7 ATOM 309 CA HIS 866 25.554 54.713 -11.357 1.00 99.63 6 ATOM 310 CB HIS 866 25.728 54.726 -9.827 1.00100.00 6 ATOM 311 CG HIS 866 24.600 55.378 -9.079 1.00100.00 6 ATOM 312 CD2 HIS 866 24.600 55.378 -9.079 1.00100.00 6 ATOM 313 ND1 HIS 866 24.593 56.720 -8.769 1.00100.00 6 ATOM 314 CE1 HIS 866 24.593 56.720 -8.769 1.00100.00 7 ATOM 315 NE2 HIS 866 23.509 57.002 -8.065 1.00100.00 7 ATOM 316 C HIS 866 24.196 54.120 -11.715 1.00 99.63 6 ATOM 317 O HIS 866 23.599 53.339 -10.964 1.009.963 8 ATOM 318 N ARG 867 23.732 54.498 -12.904 1.00100.00 7 ATOM 319 CA ARG 867 23.732 54.498 -12.904 1.00100.00 6 ATOM 320 CB ARG 867 21.700 55.371 -13.954 1.00100.00 6 ATOM 321 CG ARG 867 21.700 55.371 -13.954 1.00100.00 6 ATOM 322 CD ARG 867 23.460 55.680 -15.790 1.00100.00 7 ATOM 323 NE ARG 867 23.460 55.680 -15.790 1.00100.00 7 ATOM 324 CZ ARG 867 23.460 55.680 -15.790 1.00100.00 7 ATOM 325 NH1 ARG 867 23.460 55.680 -15.791 1.00100.00 7 ATOM 326 NH2 ARG 867 23.460 55.680 -15.755 1.00100.00 7 ATOM 327 C ARG 867 24.994 55.439 -17.837 1.00100.00 7 ATOM 328 N ASP 868 23.225 51.934 -14.164 1.00100.00 7 ATOM 329 N ASP 868 23.325 51.934 -14.164 1.00100.00 7 ATOM 329 N ASP 868 23.325 51.934 -14.164 1.00100.00 6			N	ASP	864	22.263	57.542	-10.688		
ATOM 303 N ASP 865						22.263	58.615	-11.734	1.00100.00	
ATOM 304 CA ASP 865						24.599	58.333	-12.412	1.00100.00	
ATOM 305 CB ASP 865 26.925 58.842 -13.098 1.00 87.31 6 ATOM 306 C ASP 865 25.951 56.494 -13.073 1.00100.00 6 ATOM 307 O ASP 865 26.537 55.781 -13.902 1.00100.00 8 ATOM 308 N HIS 866 25.485 56.080 -11.889 1.00 99.63 7 ATOM 309 CA HIS 866 25.554 54.713 -11.357 1.00 99.63 7 ATOM 310 CB HIS 866 25.554 54.713 -11.357 1.00 99.63 6 ATOM 311 CG HIS 866 25.728 54.726 -9.827 1.00100.00 6 ATOM 312 CD2 HIS 866 24.600 55.378 -9.079 1.00100.00 6 ATOM 313 ND1 HIS 866 24.593 56.720 -8.769 1.00100.00 6 ATOM 315 NE2 HIS 866 23.509 57.002 -8.065 1.00100.00 7 ATOM 316 C HIS 866 24.196 54.120 -11.715 1.00 99.63 6 ATOM 317 O HIS 866 24.196 54.120 -11.715 1.00 99.63 6 ATOM 318 N ARG 867 23.732 54.498 -12.904 1.00100.00 7 ATOM 319 CA ARG 867 22.419 54.106 -13.405 1.00100.00 7 ATOM 320 CB ARG 867 21.700 55.371 -13.954 1.00100.00 6 ATOM 321 CG ARG 867 21.700 55.371 -13.954 1.00100.00 6 ATOM 322 CD ARG 867 21.971 55.721 -15.445 1.00100.00 6 ATOM 323 NE ARG 867 23.460 55.680 -15.790 1.00100.00 7 ATOM 324 CZ ARG 867 23.460 55.680 -15.790 1.00100.00 7 ATOM 325 NH1 ARG 867 23.698 55.859 -17.219 1.00100.00 7 ATOM 326 NH2 ARG 867 24.794 55.439 -17.837 1.00100.00 7 ATOM 327 C ARG 867 24.794 55.439 -17.837 1.00100.00 7 ATOM 328 N ARG 867 25.733 54.810 -17.137 1.00100.00 7 ATOM 327 C ARG 867 24.794 55.628 -19.145 1.00100.00 7 ATOM 328 O ARG 867 25.533 59.914 -15.575 1.00100.00 6 ATOM 329 N ASP 868 23.295 51.934 -14.164 1.00100.00 7 ATOM 329 N ASP 868 23.295 51.934 -14.164 1.00100.00 7					865	25.670	57.988	-13.347	1.00100.00	
ATOM 306 C ASP 865						26.925	58.842	-13.098	1.00 87.31	
ATOM 307 O ASP 865 26.537 55.781 -13.902 1.00100.00 8 ATOM 308 N HIS 866 25.485 56.080 -11.889 1.00 99.63 7 ATOM 309 CA HIS 866 25.554 54.713 -11.357 1.00 99.63 6 ATOM 310 CB HIS 866 25.728 54.726 -9.827 1.00100.00 6 ATOM 311 CG HIS 866 24.600 55.378 -9.079 1.00100.00 6 ATOM 312 CD2 HIS 866 24.593 56.720 -8.769 1.00100.00 6 ATOM 313 ND1 HIS 866 24.593 56.720 -8.769 1.00100.00 7 ATOM 314 CE1 HIS 866 23.509 57.002 -8.065 1.00100.00 7 ATOM 315 NE2 HIS 866 22.811 55.888 -7.915 1.00100.00 7 ATOM 316 C HIS 866 24.196 54.120 -11.715 1.00 99.63 8 ATOM 317 O HIS 866 23.599 53.339 -10.964 1.00 99.63 8 ATOM 318 N ARG 867 23.732 54.498 -12.904 1.00100.00 7 ATOM 320 CB ARG 867 21.700 55.371 -13.954 1.00100.00 6 ATOM 321 CG ARG 867 21.971 55.721 -15.445 1.00100.00 6 ATOM 322 CD ARG 867 23.460 55.680 -15.790 1.00100.00 6 ATOM 323 NE ARG 867 23.698 55.859 -17.219 1.00100.00 7 ATOM 324 CZ ARG 867 23.698 55.859 -17.219 1.00100.00 7 ATOM 325 NH1 ARG 867 23.698 55.439 1.7137 1.00100.00 7 ATOM 326 NH2 ARG 867 24.994 55.439 1.7137 1.00100.00 7 ATOM 327 C ARG 867 24.994 55.439 -17.837 1.00100.00 7 ATOM 328 O ARG 867 24.994 55.628 -19.145 1.00100.00 7 ATOM 329 N ASP 868 23.225 51.934 -14.164 1.00100.00 7 ATOM 329 N ASP 868 23.225 51.934 -14.164 1.00100.00 7 ATOM 329 N ASP 868 23.235 50.867 -15.146 1.00100.00 7					865	25.951	56.494	-13.073	1.00100.00	
ATOM 308 N HIS 866						26.537	55.781	-13.902		8
ATOM 309 CA HIS 866						25.485	56.080	-11.889	1.00 99.63	
ATOM 310 CB HIS 866 25.728 54.726 -9.827 1.00100.00 6 ATOM 311 CG HIS 866 24.600 55.378 -9.079 1.00100.00 6 ATOM 312 CD2 HIS 866 23.472 54.858 -8.543 1.00100.00 6 ATOM 313 ND1 HIS 866 24.593 56.720 -8.769 1.00100.00 7 ATOM 314 CE1 HIS 866 23.509 57.002 -8.065 1.00100.00 7 ATOM 315 NE2 HIS 866 22.811 55.888 -7.915 1.00100.00 7 ATOM 316 C HIS 866 24.196 54.120 -11.715 1.00 99.63 6 ATOM 317 O HIS 866 23.599 53.339 -10.964 1.00 99.63 8 ATOM 318 N ARG 867 23.732 54.498 -12.904 1.00100.00 7 ATOM 319 CA ARG 867 22.419 54.106 -13.405 1.00100.00 7 ATOM 320 CB ARG 867 21.700 55.371 -13.954 1.00100.00 6 ATOM 321 CG ARG 867 21.971 55.721 -15.445 1.00100.00 6 ATOM 322 CD ARG 867 23.460 55.680 -15.790 1.00100.00 6 ATOM 323 NE ARG 867 23.460 55.680 -15.790 1.00100.00 7 ATOM 324 CZ ARG 867 24.794 55.439 -17.837 1.00100.00 7 ATOM 325 NH1 ARG 867 25.733 54.810 -17.137 1.00100.00 7 ATOM 326 N2 ARG 867 25.733 54.810 -17.137 1.00100.00 7 ATOM 327 C ARG 867 24.940 55.628 -19.145 1.00100.00 7 ATOM 328 O ARG 867 22.524 53.015 -14.480 1.00100.00 7 ATOM 329 N ASP 868 23.225 51.934 -14.164 1.00100.00 7 ATOM 329 N ASP 868 23.325 51.934 -14.164 1.00100.00 7 ATOM 329 N ASP 868 23.393 50.867 -15.146 1.00100.00 7 ATOM 329 N ASP 868 23.393 50.867 -15.146 1.00100.00 7						25.554	54.713	-11.357	1.00 99.63	
ATOM 311 CG HIS 866 24.600 55.378 -9.079 1.00100.00 6 ATOM 312 CD2 HIS 866 23.472 54.858 -8.543 1.00100.00 6 ATOM 313 ND1 HIS 866 24.593 56.720 -8.769 1.00100.00 7 ATOM 314 CE1 HIS 866 23.509 57.002 -8.065 1.00100.00 6 ATOM 315 NE2 HIS 866 22.811 55.888 -7.915 1.00100.00 7 ATOM 316 C HIS 866 24.196 54.120 -11.715 1.00 99.63 6 ATOM 317 O HIS 866 23.599 53.339 -10.964 1.00 99.63 8 ATOM 318 N ARG 867 23.732 54.498 -12.904 1.00100.00 7 ATOM 319 CA ARG 867 22.419 54.106 -13.405 1.00100.00 6 ATOM 320 CB ARG 867 21.700 55.371 -13.954 1.00100.00 6 ATOM 321 CG ARG 867 21.700 55.371 -13.954 1.00100.00 6 ATOM 322 CD ARG 867 23.460 55.680 -15.790 1.00100.00 6 ATOM 323 NE ARG 867 23.698 55.859 -17.219 1.00100.00 6 ATOM 324 CZ ARG 867 24.794 55.439 -17.837 1.00100.00 7 ATOM 325 NH1 ARG 867 25.733 54.810 -17.137 1.00100.00 7 ATOM 326 NH2 ARG 867 24.940 55.628 -19.145 1.00100.00 7 ATOM 327 C ARG 867 22.524 53.015 -14.480 1.00100.00 7 ATOM 328 O ARG 867 22.524 53.015 -14.480 1.00100.00 7 ATOM 329 N ASP 868 23.295 51.934 -14.164 1.00100.00 7 ATOM 329 N ASP 868 23.393 50.867 -15.146 1.00100.00 7 ATOM 329 N ASP 868 23.393 50.867 -15.146 1.00100.00 7						25.728	54.726	-9.827		
ATOM 312 CD2 HIS 866 23.472 54.858 -8.543 1.00100.00 6 ATOM 313 ND1 HIS 866 24.593 56.720 -8.769 1.00100.00 7 ATOM 314 CE1 HIS 866 23.509 57.002 -8.065 1.00100.00 6 ATOM 315 NE2 HIS 866 22.811 55.888 -7.915 1.00100.00 7 ATOM 316 C HIS 866 24.196 54.120 -11.715 1.00 99.63 6 ATOM 317 O HIS 866 23.599 53.339 -10.964 1.00 99.63 8 ATOM 318 N ARG 867 23.732 54.498 -12.904 1.00100.00 7 ATOM 319 CA ARG 867 22.419 54.106 -13.405 1.00100.00 6 ATOM 320 CB ARG 867 21.700 55.371 -13.954 1.00100.00 6 ATOM 321 CG ARG 867 21.971 55.721 -15.445 1.00100.00 6 ATOM 322 CD ARG 867 23.460 55.680 -15.790 1.00100.00 6 ATOM 323 NE ARG 867 23.460 55.680 -15.790 1.00100.00 6 ATOM 324 CZ ARG 867 24.794 55.439 -17.837 1.00100.00 7 ATOM 325 NH1 ARG 867 25.733 54.810 -17.137 1.00100.00 7 ATOM 326 NH2 ARG 867 24.940 55.628 -19.145 1.00100.00 7 ATOM 327 C ARG 867 22.524 53.015 -14.480 1.00100.00 7 ATOM 328 O ARG 867 21.980 53.140 -15.575 1.00100.00 7 ATOM 329 N ASP 868 23.393 50.867 -15.146 1.00100.00 7 ATOM 329 N ASP 868 23.393 50.867 -15.146 1.00100.00 7 ATOM 329 N ASP 868 23.393 50.867 -15.146 1.00100.00 7						24.600	55.378	-9.079	1.00100.00	
ATOM 313 ND1 HIS 866 24.593 56.720 -8.769 1.00100.00 7 ATOM 314 CE1 HIS 866 23.509 57.002 -8.065 1.00100.00 6 ATOM 315 NE2 HIS 866 22.811 55.888 -7.915 1.00100.00 7 ATOM 316 C HIS 866 24.196 54.120 -11.715 1.00 99.63 6 ATOM 317 O HIS 866 23.599 53.339 -10.964 1.00 99.63 8 ATOM 318 N ARG 867 23.732 54.498 -12.904 1.00100.00 7 ATOM 319 CA ARG 867 22.419 54.106 -13.405 1.00100.00 6 ATOM 320 CB ARG 867 21.700 55.371 -13.954 1.00100.00 6 ATOM 321 CG ARG 867 21.971 55.721 -15.445 1.00100.00 6 ATOM 322 CD ARG 867 23.460 55.680 -15.790 1.00100.00 6 ATOM 323 NE ARG 867 23.698 55.859 -17.219 1.00100.00 7 ATOM 324 CZ ARG 867 24.794 55.439 -17.837 1.00100.00 7 ATOM 325 NH1 ARG 867 24.794 55.439 -17.837 1.00100.00 7 ATOM 326 NH2 ARG 867 24.940 55.628 -19.145 1.00100.00 7 ATOM 327 C ARG 867 22.524 53.015 -14.480 1.00100.00 7 ATOM 328 O ARG 867 22.524 53.015 -14.480 1.00100.00 7 ATOM 329 N ASP 868 23.393 50.867 -15.146 1.00100.00 6 ATOM 329 N ASP 868 23.393 50.867 -15.146 1.00100.00 6						23.472		-8.543	1.00100.00	
ATOM 314 CE1 HIS 866 23.509 57.002 -8.065 1.00100.00 6 ATOM 315 NE2 HIS 866 22.811 55.888 -7.915 1.00100.00 7 ATOM 316 C HIS 866 24.196 54.120 -11.715 1.00 99.63 6 ATOM 317 O HIS 866 23.599 53.339 -10.964 1.00 99.63 8 ATOM 318 N ARG 867 23.732 54.498 -12.904 1.00100.00 7 ATOM 319 CA ARG 867 22.419 54.106 -13.405 1.00100.00 6 ATOM 320 CB ARG 867 21.700 55.371 -13.954 1.00100.00 6 ATOM 321 CG ARG 867 21.971 55.721 -15.445 1.00100.00 6 ATOM 322 CD ARG 867 23.460 55.680 -15.790 1.00100.00 6 ATOM 323 NE ARG 867 23.698 55.859 -17.219 1.00100.00 7 ATOM 324 CZ ARG 867 24.794 55.439 -17.837 1.00100.00 7 ATOM 325 NH1 ARG 867 24.794 55.439 -17.837 1.00100.00 7 ATOM 326 NH2 ARG 867 24.940 55.628 -19.145 1.00100.00 7 ATOM 327 C ARG 867 24.940 55.628 -19.145 1.00100.00 7 ATOM 328 O ARG 867 22.524 53.015 -14.480 1.00100.00 7 ATOM 329 N ASP 868 23.393 50.867 -15.146 1.00100.00 7 ATOM 329 N ASP 868 23.393 50.867 -15.146 1.00100.00 6						24.593	56.720	-8.769	1.00100.00	
ATOM 315 NE2 HIS 866 22.811 55.888 -7.915 1.00100.00 7 ATOM 316 C HIS 866 24.196 54.120 -11.715 1.00 99.63 6 ATOM 317 O HIS 866 23.599 53.339 -10.964 1.00 99.63 8 ATOM 318 N ARG 867 23.732 54.498 -12.904 1.00100.00 7 ATOM 319 CA ARG 867 22.419 54.106 -13.405 1.00100.00 6 ATOM 320 CB ARG 867 21.700 55.371 -13.954 1.00100.00 6 ATOM 321 CG ARG 867 21.971 55.721 -15.445 1.00100.00 6 ATOM 322 CD ARG 867 23.460 55.680 -15.790 1.00100.00 6 ATOM 323 NE ARG 867 23.698 55.859 -17.219 1.00100.00 7 ATOM 324 CZ ARG 867 24.794 55.439 -17.837 1.00100.00 7 ATOM 325 NH1 ARG 867 24.794 55.628 -19.145 1.00100.00 7 ATOM 326 NH2 ARG 867 24.940 55.628 -19.145 1.00100.00 7 ATOM 327 C ARG 867 22.524 53.015 -14.480 1.00100.00 7 ATOM 328 O ARG 867 21.980 53.140 -15.575 1.00100.00 7 ATOM 329 N ASP 868 23.393 50.867 -15.146 1.00100.00 7 ATOM 329 N ASP 868 23.393 50.867 -15.146 1.00100.00 6							57.002	-8.065	1.00100.00	б
ATOM 316 C HIS 866 24.196 54.120 -11.715 1.00 99.63 6 ATOM 317 O HIS 866 23.599 53.339 -10.964 1.00 99.63 8 ATOM 318 N ARG 867 23.732 54.498 -12.904 1.00100.00 7 ATOM 319 CA ARG 867 22.419 54.106 -13.405 1.00100.00 6 ATOM 320 CB ARG 867 21.700 55.371 -13.954 1.00100.00 6 ATOM 321 CG ARG 867 21.971 55.721 -15.445 1.00100.00 6 ATOM 322 CD ARG 867 23.460 55.680 -15.790 1.00100.00 6 ATOM 323 NE ARG 867 23.698 55.859 -17.219 1.00100.00 7 ATOM 324 CZ ARG 867 24.794 55.439 -17.837 1.00100.00 7 ATOM 325 NH1 ARG 867 25.733 54.810 -17.137 1.00100.00 7 ATOM 326 NH2 ARG 867 24.940 55.628 -19.145 1.00100.00 7 ATOM 327 C ARG 867 24.940 55.628 -19.145 1.00100.00 7 ATOM 328 O ARG 867 21.980 53.140 -15.575 1.00100.00 7 ATOM 329 N ASP 868 23.225 51.934 -14.164 1.00100.00 7 ATOM 329 N ASP 868 23.225 51.934 -14.164 1.00100.00 6							55.888	-7.915	1.00100.00	7
ATOM 317 O HIS 866 23.599 53.339 -10.964 1.00 99.63 8 ATOM 318 N ARG 867 23.732 54.498 -12.904 1.00100.00 7 ATOM 319 CA ARG 867 22.419 54.106 -13.405 1.00100.00 6 ATOM 320 CB ARG 867 21.700 55.371 -13.954 1.00100.00 6 ATOM 321 CG ARG 867 21.971 55.721 -15.445 1.00100.00 6 ATOM 322 CD ARG 867 23.460 55.680 -15.790 1.00100.00 6 ATOM 323 NE ARG 867 23.698 55.859 -17.219 1.00100.00 7 ATOM 324 CZ ARG 867 24.794 55.439 -17.837 1.00100.00 7 ATOM 325 NH1 ARG 867 25.733 54.810 -17.137 1.00100.00 7 ATOM 326 NH2 ARG 867 24.940 55.628 -19.145 1.00100.00 7 ATOM 327 C ARG 867 22.524 53.015 -14.480 1.00100.00 7 ATOM 328 O ARG 867 21.980 53.140 -15.575 1.00100.00 8 ATOM 329 N ASP 868 23.225 51.934 -14.164 1.00100.00 7 ATOM 329 N ASP 868 23.393 50.867 -15.146 1.00100.00 6							54.120	-11.715		6
ATOM 318 N ARG 867 23.732 54.498 -12.904 1.00100.00 7 ATOM 319 CA ARG 867 22.419 54.106 -13.405 1.00100.00 6 ATOM 320 CB ARG 867 21.700 55.371 -13.954 1.00100.00 6 ATOM 321 CG ARG 867 21.971 55.721 -15.445 1.00100.00 6 ATOM 322 CD ARG 867 23.460 55.680 -15.790 1.00100.00 6 ATOM 323 NE ARG 867 23.698 55.859 -17.219 1.00100.00 7 ATOM 324 CZ ARG 867 24.794 55.439 -17.837 1.00100.00 7 ATOM 325 NH1 ARG 867 25.733 54.810 -17.137 1.00100.00 7 ATOM 326 NH2 ARG 867 24.940 55.628 -19.145 1.00100.00 7 ATOM 327 C ARG 867 22.524 53.015 -14.480 1.00100.00 6 ATOM 328 O ARG 867 21.980 53.140 -15.575 1.00100.00 8 ATOM 329 N ASP 868 23.225 51.934 -14.164 1.00100.00 7 ATOM 330 CA ASP 868 23.393 50.867 -15.146 1.00100.00 6							53.339	-10.964	1.00 99.63	8
ATOM 319 CA ARG 867 22.419 54.106 -13.405 1.00100.00 6 ATOM 320 CB ARG 867 21.700 55.371 -13.954 1.00100.00 6 ATOM 321 CG ARG 867 21.971 55.721 -15.445 1.00100.00 6 ATOM 322 CD ARG 867 23.460 55.680 -15.790 1.00100.00 6 ATOM 323 NE ARG 867 23.698 55.859 -17.219 1.00100.00 7 ATOM 324 CZ ARG 867 24.794 55.439 -17.837 1.00100.00 6 ATOM 325 NH1 ARG 867 25.733 54.810 -17.137 1.00100.00 7 ATOM 326 NH2 ARG 867 24.940 55.628 -19.145 1.00100.00 7 ATOM 327 C ARG 867 22.524 53.015 -14.480 1.00100.00 6 ATOM 328 O ARG 867 21.980 53.140 -15.575 1.00100.00 8 ATOM 329 N ASP 868 23.225 51.934 -14.164 1.00100.00 7 ATOM 330 CA ASP 868 23.393 50.867 -15.146 1.00100.00 6									1.00100.00	7
ATOM 320 CB ARG 867 21.700 55.371 -13.954 1.00100.00 6 ATOM 321 CG ARG 867 21.971 55.721 -15.445 1.00100.00 6 ATOM 322 CD ARG 867 23.460 55.680 -15.790 1.00100.00 6 ATOM 323 NE ARG 867 23.698 55.859 -17.219 1.00100.00 7 ATOM 324 CZ ARG 867 24.794 55.439 -17.837 1.00100.00 6 ATOM 325 NH1 ARG 867 25.733 54.810 -17.137 1.00100.00 7 ATOM 326 NH2 ARG 867 24.940 55.628 -19.145 1.00100.00 7 ATOM 327 C ARG 867 22.524 53.015 -14.480 1.00100.00 6 ATOM 328 O ARG 867 21.980 53.140 -15.575 1.00100.00 8 ATOM 329 N ASP 868 23.225 51.934 -14.164 1.00100.00 7 ATOM 330 CA ASP 868 23.393 50.867 -15.146 1.00100.00 6									1.00100.00	6
ATOM 321 CG ARG 867 21.971 55.721 -15.445 1.00100.00 6 ATOM 322 CD ARG 867 23.460 55.680 -15.790 1.00100.00 6 ATOM 323 NE ARG 867 23.698 55.859 -17.219 1.00100.00 7 ATOM 324 CZ ARG 867 24.794 55.439 -17.837 1.00100.00 6 ATOM 325 NH1 ARG 867 25.733 54.810 -17.137 1.00100.00 7 ATOM 326 NH2 ARG 867 24.940 55.628 -19.145 1.00100.00 7 ATOM 327 C ARG 867 22.524 53.015 -14.480 1.00100.00 6 ATOM 328 O ARG 867 21.980 53.140 -15.575 1.00100.00 8 ATOM 329 N ASP 868 23.225 51.934 -14.164 1.00100.00 7 ATOM 330 CA ASP 868 23.393 50.867 -15.146 1.00100.00 6									1.00100.00	6
ATOM 322 CD ARG 867 23.460 55.680 -15.790 1.00100.00 6 ATOM 323 NE ARG 867 23.698 55.859 -17.219 1.00100.00 7 ATOM 324 CZ ARG 867 24.794 55.439 -17.837 1.00100.00 6 ATOM 325 NH1 ARG 867 25.733 54.810 -17.137 1.00100.00 7 ATOM 326 NH2 ARG 867 24.940 55.628 -19.145 1.00100.00 7 ATOM 327 C ARG 867 22.524 53.015 -14.480 1.00100.00 6 ATOM 328 O ARG 867 21.980 53.140 -15.575 1.00100.00 8 ATOM 329 N ASP 868 23.225 51.934 -14.164 1.00100.00 7 ATOM 330 CA ASP 868 23.393 50.867 -15.146 1.00100.00 6									1.00100.00	6
ATOM 323 NE ARG 867 23.698 55.859 -17.219 1.00100.00 7 ATOM 324 CZ ARG 867 24.794 55.439 -17.837 1.00100.00 6 ATOM 325 NH1 ARG 867 25.733 54.810 -17.137 1.00100.00 7 ATOM 326 NH2 ARG 867 24.940 55.628 -19.145 1.00100.00 7 ATOM 327 C ARG 867 22.524 53.015 -14.480 1.00100.00 6 ATOM 328 O ARG 867 21.980 53.140 -15.575 1.00100.00 8 ATOM 329 N ASP 868 23.225 51.934 -14.164 1.00100.00 7 ATOM 330 CA ASP 868 23.393 50.867 -15.146 1.00100.00 6									1.00100.00	6
ATOM 324 CZ ARG 867 24.794 55.439 -17.837 1.00100.00 6 ATOM 325 NH1 ARG 867 25.733 54.810 -17.137 1.00100.00 7 ATOM 326 NH2 ARG 867 24.940 55.628 -19.145 1.00100.00 7 ATOM 327 C ARG 867 22.524 53.015 -14.480 1.00100.00 6 ATOM 328 O ARG 867 21.980 53.140 -15.575 1.00100.00 8 ATOM 329 N ASP 868 23.225 51.934 -14.164 1.00100.00 7 ATOM 330 CA ASP 868 23.393 50.867 -15.146 1.00100.00 6									1.00100.00	7
ATOM 325 NH1 ARG 867 25.733 54.810 -17.137 1.00100.00 7 ATOM 326 NH2 ARG 867 24.940 55.628 -19.145 1.00100.00 7 ATOM 327 C ARG 867 22.524 53.015 -14.480 1.00100.00 6 ATOM 328 O ARG 867 21.980 53.140 -15.575 1.00100.00 8 ATOM 329 N ASP 868 23.225 51.934 -14.164 1.00100.00 7 ATOM 330 CA ASP 868 23.393 50.867 -15.146 1.00100.00 6									1.00100.00	6
ATOM 326 NH2 ARG 867 24.940 55.628 -19.145 1.00100.00 7 ATOM 327 C ARG 867 22.524 53.015 -14.480 1.00100.00 6 ATOM 328 O ARG 867 21.980 53.140 -15.575 1.00100.00 8 ATOM 329 N ASP 868 23.225 51.934 -14.164 1.00100.00 7 ATOM 330 CA ASP 868 23.393 50.867 -15.146 1.00100.00 6									1.00100.00	7
ATOM 327 C ARG 867 22.524 53.015 -14.480 1.00100.00 6 ATOM 328 O ARG 867 21.980 53.140 -15.575 1.00100.00 8 ATOM 329 N ASP 868 23.225 51.934 -14.164 1.00100.00 7 ATOM 330 CA ASP 868 23.393 50.867 -15.146 1.00100.00 6										7
ATOM 327 C ARG 867 21.980 53.140 -15.575 1.00100.00 8 ATOM 328 O ARG 867 21.980 53.140 -15.575 1.00100.00 7 ATOM 329 N ASP 868 23.225 51.934 -14.164 1.00100.00 7 ATOM 330 CA ASP 868 23.393 50.867 -15.146 1.00100.00 6										
ATOM 329 N ASP 868 23.225 51.934 -14.164 1.00100.00 7 ATOM 330 CA ASP 868 23.393 50.867 -15.146 1.00100.00 6										
ATOM 329 N ASP 868 23.293 50.867 -15.146 1.00100.00 6 ATOM 330 CA ASP 868 23.393 50.867 -15.146 1.00100.00 6										
ATOM 330 CA ASP 808 23.503 40.008 -14.773 1.00100.00 6										
ATUM: 331 UB ASP 000 24.391 43.990 14.773 2.000000										
	ATOM	1 ک ک	CB	ADP	000	24.371	٠, ١, ١, ١, ١			

ATOM	332	CG	ASP	868	24.412	49.314	-13.435	1.00100.00	б
ATOM	333	OD1	ASP	868	24.613	49.980	-12.391	1.00100.00	8
ATOM	334	OD2	ASP	868	24.027	48.130	-13.442	1.00100.00	8
MOTA	335	C	ASP	868	22.154	49.960	-15.282	1.00100.00	6
ATOM	336	0	ASP	868	22.293	48.750	-15.504	1.00100.00	8
ATOM	337	N	PHE	869	20.955	50.538	-15.156	1.00100.00	7
ATOM	338	CA	PHE	869	19.717		-15.259	1.00100.00	6
ATOM	339	CB	PHE	869	18.424		-15.017	1.00 99.62	6
ATOM	340	CG	PHE	869	18.595		-14.986	1.00 99.62	6
	341	CD1							
ATOM				869	18.716		-13.761	1.00 99.62	6
ATOM	342	CD2	PHE	869	18.498	52.813	-16.148	1.00 99.62	6
MOTA	343	CE1	PHE	869	18.734		-13.681	1.00 99.62	6
ATOM	344	CE2	PHE	869	18.515		-16.077	1.00 99.62	6
ATOM	345	CZ	PHE	869	18.630		-14.843	1.00 99.62	6
MOTA	346	C	PHE	869	19.576		-16.612	1.00100.00	6
ATOM	347	0	PHE	869	20.380	49.305	-17.508	1.00100.00	8
MOTA	348	N	ALA	870	18.524	48.278	-16.746	1.00100.00	7
ATOM	349	CA	ALA	870	18.206	47.512	-17.951	1.00100.00	6
ATOM	350	CB	ALA	870	19.005	48.006	-19.156	1.00 97.10	6
ATOM	351	С	ALA	870	18.532	46.061	-17.670	1.00100.00	6
ATOM	352	0	ALA	870	17.644		-17.671	1.00100.00	8
ATOM	353	N	GLY	871	19.810		-17.434	1.00100.00	7
ATOM	354	CA	GLY	871	20.221		-17.133	1.00100.00	6
ATOM	355	C	GLY	871	19.602		-15.804	1.00100.00	6
ATOM	356	0	GLY	871	19.602		-15.504	1.00100.00	8
ATOM	357								
		N	GLU	872	19.305		-14.996	1.00 99.97	7
ATOM	358	CA	GLU	872	18.669		-13.718	1.00 99.97	6
ATOM	359	CB	GLU	872	18.811		-12.787	1.00100.00	6
ATOM	360	CG	GLU	872	17.496		-12.182	1.00100.00	6
ATOM-	361	CD	GLU	872	17.571	46.692	-10.675	1.00100.00	6
ATOM	362	OE1	GLU	872	18.323	47.585	-10.230	1.00100.00	8
ATOM	363	OE2	GLU	872	16.882	45.946	-9.940	1.00100.00	8
ATOM	364	C	GLU	872	17.200	44.565	-14.033	1.00 99.97	6
ATOM	365	0	GLU	872	16.575	43.673	-13.465	1.00 99.97	8
ATOM	366	N	LEU	873	16.659	45.350	-14.961	1.00 63.02	7
ATOM	367	CA	LEU	873	15.255	45.213	-15.327	1.00 63.02	6
ATOM	368	СВ	LEU	873	14.756		-15.955	1.00 69.97	6
ATOM	369	C	LEU	873	14.977		-16.243	1.00 63.02	6
ATOM	370	0	LEU	873	13.990		-16.052	1.00 63.02	8
ATOM	371	N	GLU	874	15.847	43.819	-17.227	1.00100.00	7
ATOM	372	CA	GLU		15.687		-18.164	1.00100.00	6
	373			874				1.00100.00	6
ATOM		СВ	GLU	874	16.645		-19.331		
ATOM	374	Ċ	GLU	874	15.923		-17.454	1.00100.00	6
ATOM	375	0	GLU	874	15.103		-17.547	1.00100.00	8
MOTA	376	N	LAV	875	17.040		-16.737	1.00 69.27	7
ATOM	377	CA	VAL	875	17.383		-16.002	1.00 69.27	6
ATOM	378	CB	VAL	875	18.763	40.218	-15.359	1.00 39.27	6
MOTA	379	C	VAL	875	16.344	39.755	-14.934	1.00 69.27	6
ATOM	380	0	VAL	875	16.338	38.651	-14.399	1.00 69.27	8
MOTA	381	N	LEU	876	15.493	40.728	-14.613	1.00 78.00	7
ATOM	382	CA	LEU	876	14.438	40.543	-13.616	1.00 78.00	6
ATOM	383	CB	LEU	876	14.169		-12.843	1.00 53.20	6
ATOM	384	CG	LEU	876	14.939		-11.537	1.00 29.26	6
ATOM	385	CD1		876	14.466		-10.852	1.00 29.26	6
ATOM	386	CD2		876	14.715		-10.608	1.00 29.26	6
								1.00 29.20	6
ATOM	387	C	LEU	876	13.147		-14.290		
ATOM	388	0	LEU	876	12.410	39.262	-13.737	1.00 78.00	8

MOTA	389	N	CYS	877	12.870	40.591	~15.486	1.00 60.18	7
ATOM	390	CA	CYS	877	11.652	40.208	-16.191	1.00 60.18	6
MOTA	391	CB	CYS	877	11.199	41.317	-17.164	1.00100.00	6
MOTA	392	SG	CYS	877	12.370	41.807	-18.447	1.00100.00	16
ATOM	393	С	CYS	877	11.857	38.886	-16.916	1.00 60.18	6
ATOM	394	0	CYS	877	11.194	38.591	-17.909	1.00 60.18	8
ATOM	395	N	LYS	878	12.788	38.094	-16.398	1.00 65.17	7
ATOM	396	CA	LYS	878	13.088		-16.964	1.00 65.17	6
ATOM	397	CB	LYS	878	14.593		-17.078	1.00 89.20	6
ATOM	398	CG	LYS	878	15.190		-18.092	1.00 52.09	6
ATOM	399	CD	LYS	878	16.693		-18.128	1.00 52.09	6
ATOM	400	CE	LYS	878	17.289		-19.216	1.00 52.09	6
		NZ	LYS	878	16.965		-20.614	1.00 52.09	7
ATOM	401	C	LYS	878	12.473		-16.091	1.00 52.03	6
MOTA	402							1.00 65.17	8
ATOM	403	0	LYS	878	12.100		-16.572		
ATOM	404	N	LEU	879	12.365		-14.801	1.00100.00	7
ATOM	405	CA	LEU	879	11.752		-13.879	1.00100.00	6
MOTA	406	CB	LEU	879	12.480		-12.526	1.00 45.22	6
MOTA	407	CG	LEU	879	12.801		-11.904	1.00 46.30	6
MOTA	408	CD1		879	13.226	36.250	-10.462	1.00 46.30	6
MOTA	409	CD2	LEU	879	13.892		-12.704	1.00 46.30	6
ATOM	410	C	LEU	879	10.301		-13.717	1.00100.00	6
ATOM	411	0	LEU	879	10.019	36.656	-13.405	1.00100.00	8
ATOM	412	N	GLY	880	9.381	34.572	-13.972	1.00 96.05	7
MOTA	413	CA	GLY	880	7.980	34.903	-13.848	1.00 96.05	6
ATOM	414	C	GLY	880	7.540	34.784	-12.409	1.00 96.05	6
ATOM	415	0	GLY	880	8.358	34.825	-11.483	1.00 96.05	8
ATOM	416	N	HIS	881	6.236		-12.216	1.00 70.51	7
MOTA	417	CA	HIS	881	5.693		-10.876	1.00 70.51	6
ATOM	418	CB	HIS	881	4.178		-10.843	1.00 99.80	6
ATOM	419	CG	HIS	881	3.498	34.160	-9.629	1.00 99.80	6
	420		HIS	881	3.000	32.924	-9.383	1.00 99.80	6
ATOM	421		HIS	881	3.264	34.897	-8.484	1.00 99.80	7
ATOM						34.142	-7.592	1.00 99.80	6
ATOM	422		HIS	881	2.648		-8.110	1.00 99.80	7
ATOM	423		HIS	881	2.477	32.939			6
ATOM	424	C	HIS	881	5.952	33.094	-10.384	1.00 70.51	8
ATOM	425	0	HIS	881	5.908		-11.147	1.00 70.51	
MOTA	426	N	HIS	882	6.231	32.982	-9.104	1.00 45.83	7
MOTA	427	CA	HIS	882	6.404	31.672	-8.546	1.00 45.83	6
MOTA	428	CB	HIS	882	7.866	31.289	-8.449	1.00 14.81	6
MOTA	429	CG	HIS	882	8.076	29.813	-8.295	1.00 29.81	6
ATOM	430.	CD2	HIS	882	7.783	28,782	-9.126		б
ATOM	431	ИDI	HIS	882	8.608	29.244	-7.167	1.00 29.81	7
MOTA	432	CE1	HIS	882	8.638	27.932	-7.299	1.00 29.81	6
MOTA	433	NE2	HIS	882	8.142	27.626	-8.484	1.00 29.81	7
MOTA	434	С	HIS	882	5.773	31.719	-7.182	1.00 45.83	6
ATOM	435	0	HIS	882	5.987	.32.655	-6.411	1.00 45.83	8
ATOM	436	N	PRO	883	4.959	30.711	-6.873	1.00 37.21	7
ATOM	437	CD	PRO	883	4.747	29.405	-7.508	1.00 52.55	6
ATOM	438	CA	PRO	883	4.353	30.762	-5.556	1.00 37.21	6
ATOM	439	CB	PRO	883	3.821	29.336	-5.373	1.00 47.02	6
		CG	PRO	883	4.591	28.493	-6.316	1.00 52.55	6
ATOM	440				5.359	31.209	-4.487	1.00 37.21	6
ATOM	441	C	PRO	883				1.00 37.21	8
ATOM	442	0	PRO	883	4.990	31.958	-3.579	1.00 37.21	7
MOTA	443	N	ASN	884	6.628	30.800	-4.601		6
ATOM	444	CA	ASN	884	7.619	31.198	-3.582	1.00 24.86	6
MOTA	445	CB	ASN	884	8.077	29.996	-2.714	1.00 18.47	. 0

								- 00 33 45	_
ATOM	446	CG	ASN	884	7.553	28.671	-3.203	1.00 33.47	6
MOTA	447	OD1	ASN	884	7.951	28.205	-4.243	1.00 33.47	8
MOTA	448	ND2	ASN	884	6.674	28.052	-2.443	1.00 33.47	7
MOTA	449	С	ASN	884	8.860	31.986	-4.022	1.00 24.86	6
MOTA	450	0	ASN	884	9.996	31.540	-3.862	1.00 24.86	8
ATOM	451	N	ILE	885	8.603	33.191	-4.518	1.00 46.00	7
ATOM	452	CA	ILE	885	9.616	34.125	-4.986	1.00 46.00	6
				885	10.063	33.811	-6.435	1.00 25.68	6
MOTA	453	CB	ILE						6
MOTA	454	CG2	ILE	885	10.616	35.056	-7.119		
ATOM	455	CG1	ILE	885	11.101	32.696	-6.451	1.00 21.87	6
ATOM	456	CD1	ILE	885	11.855	32.614	-7.727	1.00 21.87	6
ATOM	457	C	ILE	885	8.924	35.476	-5.013	1.00 46.00	6
ATOM	458	0	ILE	885	7.845	35.596	-5.601	1.00 46.00	8
ATOM	459	N	ILE	886	9.501	36.488	-4.373	1.00 36.62	7
ATOM	460	CA	ILE	886	8.857	37.785	-4.434	1.00 36.62	6
ATOM	461	CB	ILE	886	9.462	38.768	-3.414	1.00 17.99	6
ATOM	462	CG2	ILE	886	9.259	40.221	-3.846	1.00 27.09	6
						38.531	-2.075	1.00 27.09	6
MOTA	463	CG1	ILE	886	8.764			1.00 27.09	6
MOTA	464	CD1	ILE	886	9.230	39.402	-1.000		
ATOM	465	С	ILE	886	8.969	38.250	-5.881	1.00 36.62	6
MOTA	466	0	ILE	886	10.040	38.615	-6.363	1.00 36.62	8
ATOM	467	N	ASN	887	7.832	38.163	-6.566	1.00 39.60	7
ATOM	468	CA	ASN	887	7.716	38.506	-7.975	1.00 39.60	6
ATOM	469	CB	ASN	887	6.531	37.759	-8.603	1.00 82.94	6
ATOM	470	CG	ASN	887	6.602	36.250	-8.406	1.00 82.94	6
ATOM	471		ASN	887	7.490	35.584	-8.932	1.00 82.94	8
ATOM	472	ND2		887	5.665	35.710	-7.637	1.00 82.94	7
		C	ASN	887	7.535	39.990	-8.222	1.00 39.60	6
ATOM	473					40.687	-7.432	1.00 39.60	8
ATOM	474	0	ASN	887	6.893				7
MOTA	475	N	LEU	888	8.125	40.438	-9.332		6
MOTA	476	CA	LEU	888	8.067	41.822	-9.789	1.00 73.28	
ATOM	477	CB	LEU	888	9.044	42.055	-10.953	1.00 34.36	6
ATOM	478	CG	LEU	888	9.064	43.390	-11.721	1.00 18.51	6
ATOM	479	CD1	LEU	888	9.760	44.444	-10.873	1.00 18.51	6
ATOM	480	CD2	LEU	888	9.809	43.220	-13.035	1.00 18.51	6
ATOM	481	С	LEU	888	6.651	42.083	-10.274	1.00 73.28	б
ATOM	482	0	LEU	888	6.083	41.282	-11.022	1.00 73.28	8
ATOM	483	N	LEU	889	6.091	43.210	-9.853	1.00 99.59	7
		CA	LEU	889	4.731	43.573	-10.235	1.00 99.59	6
ATOM	484				3.936	43.972	-8.975	1.00 97.88	6
MOTA	485	CB	LEU	889				1.00 59.80	6
ATOM	486	CG	LEU	889	3.874	42.924	-7.838	1.00 59.80	6
MOTA	487		LEU	889	2.923	43.357			-
ATOM	488	CD2	LEU	889	3.419	41.589	-8.413	1.00 59.80	6
MOTA	489	C	LEU	889	4.676		-11.304		6
MOTA	490	0	LEU	889	3.805		-12.167	1.00 99.59	8
MOTA	491	N	GLY	890	5.599	45.636	-11.266	1.00 54.35	7
ATOM	492	CA	GLY	890	5.597	46.699	-12.264	1.00 54.35	б
ATOM	493	C	GLY	890	6.668		-11.986	1.00 54.35	6
MOTA	494	0	GLY	890	7.617		-11.259	1.00 54.35	8
			ALA	891	6.534		-12.560	1.00 66.65	7
ATOM	495	N						1.00 66.65	6
ATOM	496	CA	ALA	891	7.515		-12.328		6
ATOM	497	CB	ALA	891	8.872		-12.911	1.00 68.11	
MOTA	498	C	ALA	891	7.055		-12.937	1.00 66.65	6
MOTA	499	0	ALA	891	6.176		-13.789		8
MOTA	500	N	CYS	892	7.656		-12.485	1.00 99.57	7
ATOM	501	CA	CYS	892	7.322	53.720	-12.984	1.00 99.57	6
ATOM	502	CB	CYS	892	6.872	54.619	-11.833	1.00 98.88	6
		_							

						000	10 245	1.00 92.24	16
ATOM	503	SG	CYS	892	5.614	55.803		1.00 99.57	6
ATOM	504	С	CYS	892	8.579	54.284		1.00 99.57	8
MOTA	505	0	CYS	892	9.610	53.625		1.00 99.69	7
MOTA	506	N	GLU	893	8.503	55.485			6
ATOM	507	CA	GLU	893	9.676	56.130		1.00 99.69	
ATOM	508	CB	GLU	893	9.687	55.991		1.00100.00	6
ATOM	509	CG	GLU	893	10.439	54.776		1.00100.00	6
ATOM	510	CD	GLU	893	10.793	54.883		1.00100.00	6
ATOM	511	OE1	GLU	893	11.715	55.657		1.00100.00	8
ATOM	512	OE2	GLU	893	10.123		-19.128	1.00100.00	8
ATOM	513	C	GLU	893	9.616	57.594		1.00 99.69	6
ATOM	514	0	GLU	893	9.817	58.469		1.00 99.69	8
ATOM	515	N	HIS	894	9.516	57.779		1.00 96.96	7
MCTA	516	CA	HIS	894	9.344	59.158		1.00 96.96	6
MOTA	517	CB	HIS	894	8.697	59.154	-11.042	1.00100.00	6
ATOM	518	CG	HIS	894	8.186	60.532	-10.618	1.00100.00	6
ATOM	519	CD2	HIS	894	7.291	61.381	-11.187	1.00100.00	6
ATOM	520	ND1		894	8.631	61.157	-9.457	1.00100.00	7
ATOM	521	CE1		894	8.019	62.323	-9.357	1.00100.00	6
ATOM	522	NE2		894	7.216	62.472	-10.381	1.00100.00	7
ATOM	523	C	HIS	894	10.703	59.854	-12.336	1.00 96.96	6
ATOM	524	0	HIS	894	11.756	59.200		1.00 96.96	8
ATOM	525	N	ARG	895	10.631	61.171		1.00100.00	7
	526	CA	ARG	895	11.818		-12.182	1.00100.00	6
ATOM			ARG	895	11.408		-11.741	1.00100.00	6
ATOM	527	CB	ARG	895	10.703		-12.846	1.00100.00	6
ATOM	528	CG	ARG	895	10.357		-12.430	1.00100.00	6
MOTA	529	CD			10.896		-13.350	1.00100.00	7
ATOM	530	NE	ARG	895	10.138		-14.101	1.00100.00	б
ATOM	531	CZ	ARG	895	8.801		-14.056	1.00100.00	7
ATOM	532		ARG	895			-14.939	1.00100.00	7
ATOM	533	NH2	ARG	895	10.630		-11.159	1.00100.00	6
ATOM	534	C	ARG	895	12.796		-10.236	1.00100.00	8
ATOM	535	0	ARG	895	12.399		-11.359	1.00100.00	7
MOTA	536	N	GLY	896	14.055	•		1.00100.00	6
MOTA	537	CA	GLY	896	15.150		-10.493	1.00100.00	6
MCTA	538	C	\mathtt{GLY}	896	14.949		-10.145	1.00100.00	8
MCTA	539	0	\mathtt{GLY}	896	14.575	59.517	-9.013	1.00100.00	7
MOTA	540	N	TYR	897	15.205	59.037	-11.143		6
MOTA	541	CA	TYR	897	15.068		-11.033	1.00100.00	6
ATOM	542	CB	TYR	897	15.624	57.096	-9.692	1.00100.00	
ATOM	543	CG	TYR	897	15.964	55.604	-9.688	1.00100.00	6
ATOM	544	ςp1	TYR	897	17.195		-10.192	1.00100.00	6
ATOM	545	CE1	TYR	897	17.506		-10.190	1.00100.00	6
ATOM	546	CD2	TYR	897	15.045	54.676	-9.182	1.00100.00	6
ATOM	547	CE2		897	15.357	53.311	-9.179	1.00100.00	6
ATOM	548	CZ	TYR	897	16.587	52.873	-9.684	1.00100.00	6
ATOM	549	OH	TYR	897	16.890	51.547	-9.682	1.00100.00	8
ATOM	550	C	TYR	897	13.592	57.190	-11.131	1.00100.00	6
ATOM	551	ō	TYR	897	12.714	58.051	-11.293	1.00100.00	8
	552	N	LEU	898	13.367		-11.027	1.00100.00	7
ATOM		CA	LEU	898	12.020		-11.093	1.00100.00	6
ATOM	553			898	11.960		-12.202	1.00 41.85	6
ATOM	554	CB	LEU	898	11.672	54.648	-9.759	1.00100.00	6
ATOM	555	C	LEU		12.234	54.992	-8.709	1.00100.00	8
MOTA	556	0	LEU	898	10.747	53.711		1.00 72.77	7
ATOM	557	N	TYR	899		52.951		1.00 72.77	6
MOTA	558	CA	TYR	899	10.267			1.00100.00	6
ATOM	559	CB	TYR	899	9.153	53.725	7.902		-

MOTA	560	CG	\mathtt{TYR}	899	9.685	54.728	-6.958	1.00100.00	6
ATOM	561	CD1	TYR	899	9.394	56.090	-7.096	1.00100.00	6
MOTA	562	CE1	TYR	899	9.884	57.008	-6.159	1.00100.00	6
ATOM	563	CD2	TYR	899	10.465	54.283	-5.884	1.00100.00	6
ATOM	564	CE2	TYR	899	10.955	55.201	-4.948	1.00100.00	6
ATOM	565	CZ	TYR	899	10.664	56.564	-5.085	1.00100.00	6
ATOM	566	OH	TYR	899	11.140	57.456	-4.175	1.00100.00	8
ATOM	567	C	TYR	899	9.726	51.592	-9.136	1.00 72.77	б
ATOM	568	0	TYR	899	8.785	51.532	-9.940	1.00 72.77	8
	569	N	LEU	900	10.350	50.565	-8.591	1.00 72.77	7
ATOM									
ATOM	570	CA	LEU	900	9.996	49.168	-8.876	1.00 78.27	6
ATOM	571	CB	LEU	900	11.233	48.277	-8.738	1.00 79.18	6
ATOM	572	CG	LEU	900	11.566		-10.020	1.00 54.43	6
ATOM	573	CD1	LEU	900	11.602		-11.259	1.00 54.43	6
ATOM	574	CD2	LEU	900	12.931	46.823	-9.967	1.00 54.43	6
ATOM	575	С	LEU	900	8.927	48.689	-7.892	1.00 78.27	б
ATOM	576	0	LEU	900	9.079	48.823	-6.669	1.00 78.27	8
ATOM	577	N	ALA	901	7.874	48.141	-8.468	1.00 72.23	7
MOTA	578	CA	ALA	901	6.731	47.614	-7.708	1.00 72.23	6
MOTA	579	CB	ALA	901	5.424	47.944	-8.433	1.00 33.79	6
ATOM	580	С	AīA	901	6.851	46.095	-7.568	1.00 72.23	6
ATOM	581	0	ALA	901	7.121	45.383	-8.546	1.00 72.23	8
ATOM	582	N	ILE	902	6.929	45.582	-6.293	1.00 59.87	7
ATOM	583	CA	ILE	902	7.104	44.154	-6.059	1.00 59.87	6
ATOM	584	CB	ILE	902	8.550	43.900	-5.623	1.00 34.80	6
ATOM	585	CG2	ILE	902	9.522	44.289	-6.729	1.00 35.77	6
			ILE	902			-4.397	1.00 35.77	6
ATOM	586	CG1			8.846	44.755			6
ATOM	587	CD1	ILE	902	10.311	45.018	-4.169		
ATOM	588	C	ILE	902	6.165	43.633	-4.969	1.00 59.87	6
ATOM	589	0	ILE	902	5.750	44.390	-4.093	1.00 59.87	8
ATOM	590	N	GLU	903	5.835	42.344	-5.030	1.00 34.73	7
ATOM	591	CA	GLU	903	4.967	41.716	-4.036	1.00 34.73	6
MOTA	592	CB	GLU	903	5.047	40.197	-4.119	1.00 38.01	6
MOTA	593	CG	GLU	903	4.180	39.568	-5.170	1.00 49.25	б
ATOM	594	CD	GLU	903	4.216	38.043	-5.112	1.00 49.25	6
ATOM	595	OE1	GLU	903	4.310	37.497	-3.985	1.00 49.25	8
ATOM	596	OE2	GLU	903	4.141	37.403	-6.191	1.00 49.25	8
ATOM	597	С	GLU	903	5.343	42.124	-2.627	1.00 34.73	6
ATOM	598	0	GLU	903	6.514	42.378	-2.330	1.00 34.73	8
ATOM	599	N	TYR	904	4.328	42.169	-1.770	1.00 31.03	7
ATOM	600	CA	TYR	904	4.469	42.530	-0.370	1.00 31.03	6
	601		TYR	904	3.411	43.577	-0.003	1.00 13.64	6
ATOM		ÇB CG	TYR	904	3.419	43.950	1.459	1.00 23.21	6
ATOM	602				4.598			1.00 23.21	6
ATOM	603	CD1		904		44.344	2.086		6
ATOM	604	CE1	TYR	904	4.647	44.606	3.448	1.00 23.21	
ATOM	605		TYR	904	2.276	43.840	2.236	1.00 23.21	6
MOTA	606	CE2	TYR	904	2.315	44.102	3.608	1.00 23.21	6
ATOM	607	CZ	TYR	904	3.509	44.477	4.204	1.00 23.21	6
ATOM	608	OH	TYR	904	3.575	44.663	5.569	1.00 23.21	8
ATOM	609	C	TYR	904	4.328	41.291	0.532	1.00 31.03	6
ATOM	610	0	TYR	904	3.388	40.494	0.393	1.00 31.03	8
ATOM	611	N	ALA	905	5.284	41.154	1.447	1.00 31.20	7
ATOM	612	CA	ALA	905	5.334	40.063	2.409	1.00 31.20	6
ATOM	613	CB	ALA	905	6.733	39.460	2.430	1.00 28.71	6
ATOM	614	C	ALA	905	4.990	40.633	3.781	1.00 31.20	6
	615	0	ALA	905	5.853	41.091	4.514	1.00 31.20	8
ATOM			PRO	906	3.716	40.600	4.151	1.00 17.48	7
ATOM	616	Ŋ	FRU		J./⊥0	±0.000	ヹ・ エコエ	1.00 1/.±0	•

									_
ATOM	617	CD	PRO	906	2.597	40.048	3.370	1.00 32.19	6
ATOM	618	CA	PRO	906	3.241	41.121	5.427	1.00 17.48	6
ATOM	619	CB	PRO	906	1.728	40.964	5.314	1.00 32.19	6
MOTA	620	CG	PRO	906	1.580	39.762	4.442	1.00 32.19	6
ATOM	621	C	PRO	906	3.774	40.564	6.724	1.00 17.48	6
ATOM	622	0	PRO	906	3.408	41.072	7.788	1.00 17.48	8
ATOM	623	N	HIS	907	4.636	39.550	6.683	1.00 30.66	7
	624	CA	HIS	907	5.123	38.987	7.954	1.00 30.66	6
ATOM		CB	HIS	907	4.657	37.543	8.130	1.00 5.00	6
ATOM	625		HIS	907	3.174	37.357	8.048	1.00 5.00	6
MOTA	626	CG			2.219	37.357	9.011	1.00 5.00	6
ATOM	627		HIS	907		37.103	6.865	1.00 5.00	7
ATOM	628	ND1		907	2.517			1.00 5.00	6
MOTA	629	CE1	HIS	907	1.224	36.945	7.097		7
MOTA	630	NE2	HIS	907	1.021	37.091	8.393		6
MOTA	631	C	HIS	907	6.622	39.004	8.229	1.00 30.66	
ATOM	632	0	HIS	907	7.130	38.115	8.926	1.00 30.66	8
ATOM	633	N	GLY	908	7.326	40.009	7.718	1.00 38.98	7
ATOM	634	CA	GLY	908	8.756	40.081	7.947	1.00 38.98	6
ATOM	635	С	GLY	908	9.483	38.924	7.298	1.00 38.98	6
ATOM	636	0	GLY	908	8.935	38.235	6.436	1.00 38.98	8
ATOM	637	N	ASN	909	10.719	38.698	7.718	1.00 31.42	7
	638	CA	ASN	909	11.517	37.620	7.140	1.00 31.42	6
ATOM		CB	ASN	909	12.963	38.068	6.941	1.00 41.70	6
ATOM	639			909	13.566	38.630	8.197	1,00 41.70	6
MOTA	640	CG	ASN		14.196	39.684	8.163	1.00 41.70	8
MOTA	641		ASN	909		37.931	9.316	1.00 41.70	7
MOTA	642	ND2	ASN	909	13.381		7.964	1.00 31.42	6
MOTA	643	C	NZA	909	11.488	36.349		1.00 31.42	8
ATOM	644	0	ASN	909	11.094	36.340	9.132	1.00 31.42	7
ATOM	645	N	LEU	910	11.937	35.275	7.347		6
MOTA	646	CA	LEU	910	11.930	34.014	8.019	1.00 17.12	
ATOM	647	CB	LEU	910	12.524	32.962	7.139	1.00 20.29	6
ATOM	648	CG	LEU	910	12.192	31.558	7.604	1.00 20.29	6
ATOM	649	CD1	LEU	910	10.687	31.274	7.677	1.00 20.29	6
ATOM .	650	CD2	LEU	910	12.850	30.696	6.590	1.00 20.29	6
ATOM	651	C	LEU	910	12.679	34.039	9.332	1.00 17.12	6
ATOM	652	0	LEU	910	12.183	33.554	10.355	1.00 17.12	8
	653	N	LEU	911	13.885	34.579	9.319	1.00 21.04	7
ATOM			LEU	911	14.646	34.644	10.551	1.00 21.04	б
MOTA	654	CA			15.865	35.523	10.363	1.00 23.99	6
ATOM	655	CB	LEU	911	16.744	35.463	11.596	1.00 23.99	6
ATOM	656	CG	LEU	911		34.053	11.797	1.00 23.99	6
MOTA	657		LEU	911	17.326		11.399	1.00 23.99	6
MOTA	658	CP2	LEU	911			_	1.00 21.04	6
MOTA	659	C'	LEU	911	13.791	35.199	11.697	1.00 21.04	8
MOTA	660	0	LEU	911	13.565	34.515	12.692		7
MOTA	661	N	ASP	912	13.305	36.429	11.557	1.00 16.81	
MOTA	662	CA	ASP	912	12.489	37.041	12.618	1.00 16.81	6
ATOM	663	CB	ASP	912	11.973	38.399	12.177	1.00 39.39	6
ATOM	664	CG	ASP	912	12.996	39.463	12.327	1.00 39.39	6
ATOM	665		ASP	912	12.794	40.557	11.777	1.00 39.39	8
			ASP	912	14.005	39.185	12.989	1.00 39.39	8
ATOM	666			912	11.311	36.214	13.031	1.00 16.81.	6
MOTA	667	C	ASP		11.020	36.079	14.215	1.00 16.81	8
MOTA	668	0	ASP	912		35.698	12.027	1.00 39.11	7
ATOM	669	N	PHE	913	10.623		12.027	1.00 39.11	6
MOTA	670	CA	PHE	913	9.462	34.884		1.00 33.11	6
MOTA	671	CB	PHE	913	8.850	34.495	10.937	1.00 34.21	6
MOTA	672	CG	PHE	913	7.458	34.005	11.055		6
MOTA	673	CD1	PHE	913	6.412	34.897	11.233	1.00 34.21	0

MOTA	674	CD2	PHE	913	7.181	32.647	10.986	1.00		6
MOTA	675	CE1	PHE	913	5.109	34.450	11.343		34.21	6
MOTA	676	CE2	PHE	913	5.885	32.185	11.094		34.21	6
ATOM	677	CZ	PHE	913	4.843	33.089	11.271		34.21	6
ATOM	678	С	PHE	913	9.846	33.636	13.026		39.11	6
ATOM	679	0	PHE	913	9.073	33.166	13.843		39.11	8
MOTA	680	N	LEU	914	11.018	33.076	12.770		29.14	7
ATOM	681	CA	LEU	914	11.389	31.895	13.527	1.00	29.14	6
MOTA	682	CB	LEU	914	12.622	31.212	12.916	1.00	10.91	б
ATOM	683	CG	LEU	914	12.407	30.445	11.606	1.00	10.91	6
MOTA	684	CD1	LEU	914	13.709	29.936	11.066	1.00	10.91	6
ATOM	685	CD2	LEU	914	11.430	29.310	11.861	1.00	10.91	6
ATOM	686	C	LEU	914	11.659	32.247	14.994	1.00 2	29.14	6
ATOM	687	0	LEU	914	11.215	31.551	15.893	1.00 2	29.14	8
ATOM	688	N	ARG	915	12.377	33.337	15.228	1.00	18.56	7
ATOM	689	CA	ARG	915	12.750	33.766	16.569	1.00	18.56	6
ATOM	690	CB	ARG	915	13.829	34.844	16.463	1.00 2	29.12	6
ATOM	691	CG	ARG	915	15.088	34.300	15.887	1.00 2	29.12	6
ATOM	692	CD	ARG	915	16.140	35.354	15.729	1.00 2	29.12	6
ATOM	693	NE	ARG	915	17.459	34.736	15.660	1.00 2	29.12	7
ATOM	694	CZ	ARG	915	18.580	35.352	15.285	1.00 2	29.12	6
ATOM	695	NH1	ARG	915	18.545	36.630	14.924	1.00 2	29.12	7
ATOM	696	NH2	ARG	915	19.745	34.689	15.287	1.00 2	9.12	7
ATOM	697	C	ARG	915	11.609	34.256	17.439		L8.56	6
ATOM	698	0	ARG	915	11.641	34.094	18.665		18.56	8
ATOM	699	N	LYS	916	10.605	34.841	16.788		22.66	7
	700	CA	LYS	916	9.426	35.406	17.441		22.66	6
ATOM			LYS	916	8.816	36.463	16.501		1.60	6
ATOM	701	CB	LYS	916	7.369	36.228	16.021		1.60	6
ATOM	702	CG		916	7.163	34.999	15.123		51.60	6
ATOM	703	CD	LYS		5.699	34.865	14.684		1.60	6
ATOM	704	CE	LYS	916	4.772	34.565	15.811		1.60	7
ATOM	705	NZ	LYS	916			17.848		22.66	6
ATOM	706	C	LYS	916	8.377	34.360	18.366		22.66	8
ATOM	707	0	LYS	916	7.332	34.718			22.66	7
ATOM	708	N	SER	917	8.677	33.082	17.633		22.66	6
ATOM	709	CA	SER	917	7.773	31.979	17.957			6
ATOM	710	CB	SER	917	7.623	31.070	16.741		L9.58 L9.58	8
ATOM	711	OG	SER	917	8.890	30.564	16.328			
ATOM	712	С	SER	917	8.272	31.143	19.135		22.66	6
MOTA	713	0	SER	917	7.720	30.078	19.436		22.66	8
ATOM	714	N	ARG	918	9.339	31.602	19.780		32.97	7
MOTA	715 .	СÃ	ARG	918	9.906	30.908	20.934		32.97	6
ATOM	716	CB	ARG	918	11.372	31.305	21.132	1.00	9.93	6
MOTA	717	CG	ARG	918	12.287	31.089	19.973	1.00	9.93	6
ATOM	718	CD	ARG	918	13.751	31.230	20.402	1.00	9.93	6
ATOM	719	NE	ARG	918	14.633	30.604	19.413	1.00	9.93	7
ATOM	720	CZ	ARG	918	15.957	30.509	19.504	1.00	9.93	6
ATOM	721	NHl	ARG	918	16.610	31.007	20.533	1.00	9.93	7
ATOM	722	NH2	ARG	918	16.637	29.872	18.565	1.00	9.93	7
ATOM	723	C	ARG	918	9.110	31.323	22.177	1.00		6
ATOM	724	0	ARG	918	9.547	32.189	22.925	1.00		8
ATOM	725	N	VAL	919	7.943	30.704	22.365	1.00	29.42	7
ATOM	726	CA	VAL	919	7.026	30.973	23.484	1.00	29.42	6
ATOM	727	CB	VAL	919	5.878	29.970	23.518	1.00		6
ATOM	728		VAL	919	4.650	30.613	24.113	1.00		6
	729		VAL	919	5.620	29.426	22.134	1.00		6
ATOM		CGZ	VAL	919	7.635	30.893	24.867	1.00		6
MOTA	730		VAL	シエジ	7.033	درن. ن د	21.00,		_ 	

ATOM	731	0	VAL	919	7.173	31.537	25.793	1.00 29.42	8
ATOM	732	N	LEU	920	8.635	30.048	25.020	1.00 34.37	7
ATOM	733	CA	LEU	920	9.260	29.900	26.305	1.00 34.37	6
ATOM	734	CB	LEU	920	10.093	28.629	26.324	1.00 36.03	6
ATOM.	735	CG	LEU	920	10.638	28.310	27.688	1.00 36.03	6
ATOM	736		LEU	920	9.559	28.061	28.676	1.00 36.03	б
MOTA	737	CD2		920	11.592	27.104	27.587	1.00 36.03	6
ATOM	738	С	LEU	920	10.138	31.117	26.552	1.00 34.37	6
MOTA	739	0	LEU	920	10.523	31.393	27.676	1.00 34.37	8
ATOM	740	N	GLU	921	10.472	31.851	25.503	1.00 29.12	7
ATOM	741	CA	GLU	921	11.301	33.025	25.693	1.00 29.12	6
MOTA	742	CB	GLU	921	12.215	33.237	24.485	1.00 99.98	6
ATOM	743	CG	GLU	921	13.435	34.081	24.798	1.00 99.98	6
ATOM	744	CD	GLU	921	13.165	35.574	24.753	1.00 99.98	6
ATOM	745		GLU	921	12.935	36.086	23.638	1.00 99.98	8
ATOM	746	OE2		921	13.156	36.228	25.824	1.00 99.98	8
ATOM	747	C	GLU	921	10.362	34.207	25.885	1.00 29.12	6
ATOM	748	0	GLU	921	10.452	34.929	26.869	1.00 29.12	8
ATOM	749	N	THR	922	9.455	34.375	24.932	1.00 52.74	7
ATOM	750	CA	THR	922	8.463	35.437	24.944	1.00 52.74	6
MOTA	751	CB	THR	922	7.450	35.207	23.800	1.00 53.34	6
ATOM	752	OG1	THR	922	8.038	35.598	22.558	1.00 53.34	8
MOTA	753	CG2	THR	922	6.167	35.977	24.026	1.00 53.34	6
ATOM	754	C	THR	922	7.706	35.498	26.265	1.00 52.74	6
MOTA	755	0	THR	922	7.923	36.398	27.077	1.00 52.74	8
ATOM	756	N	ASP	923	6.827	34.515	26.461	1.00 32.25	7
ATOM	757	CA	ASP	923	5.981	34.391	27.651	1.00 32.25	6
ATOM	758	CB	ASP	923	4.509	34.434	27.231	1.00 60.93	6
ATOM	759	CG	ASP	923	3.558	34.328	28.404	1.00 60.93	6
ATOM	760		ASP	923	3.762	35.032	29.415	1.00 60.93	8
ATOM	761		ASP	923	2.593	33.545	28.309	1.00 60.93	8
ATOM	762	C	ASP	923	6.295	33.083	28.361	1.00 32.25	6
MOTA	763	0	ASP	923	5.711	32.034	28.055	1.00 32.25	8
ATOM	764	N	PRO	924	7.216	33.146	29.346	1.00 33.34	7
ATOM	765	CD	PRO	924	7.426	34.381	30.130	1,00100.00	6
ATOM	766	CA	PRO	924	7.637	31.978	30.125	1.00 33.34	6
MOTA	767	CB	PRO	924	8.263	32.605	31.366	1.00100.00	6
ATOM	768	CG	PRO	924	7.488	33.863	31.535	1.00100.00	6
ATOM	769	С	PRO	924	6.464	31.030	30.456	1.00 33.34	6
ATOM	770	0	PRO	924	6.470	29.873	30.053	1.00 33.34	8
MOTA	771	N	ALA	925	5.460	31.543	31.164	1.00 69.10	7
ATOM	772	CA	ALA	925	4.282	30.781	31.603	1.00 69.10	6
ATOM	773	CB	ALA	925	3.311	31.735	32.255	1.00 73.73	6
ATOM	774	С	ALA	925	3.562	29.976	30.531	1.00 69.10	6
ATOM	775	0	ALA	925	3.802	28.779	30.384	1.00 69.10	8
ATOM	776	N	PHE	926	2.662	30.639	29.806	1.00 48.64	7
ATOM	777	CA	PHE	926	1.877	30.013	28.743	1.00 43.64	6
MOTA	778	CB	PHE	926	1.766	30.975	27.558	1.00 37.88	6
ATOM	779	CG	PHE	926	0.669	30.632	26.605	1.00 37.88	6
MOTA	780	CD1		926	-0.646	30.983	26.893	1.00 37.88	6
ATOM	781	CD2		926	0.926	29.853	25.479	1.00 37.88	6
ATOM	782	CEl		926	-1.679	30.560	26.089	1.00 37.88	6
ATOM	783	CE2		926	-0.106	29.420	24.668	1.00 37.88	6
MOTA	784	CZ	PHE	926	-1.406	29.774	24.977	1.00 37.88	6
ATOM	785	C	PHE	926	2.439	28.673	28.267	1.00 48.64	6
ATOM	786	0	PHE	926	1.752	27.656	28.298	1.00 48.64	8
ATOM	787	N	ALA	927	3.688	28.581	27.812	1.00 47.80	7

7.00	700	~~	73.77	007	4 227	27 467	27 240	1 00	47 00	6
ATOM	788	CA	ALA	927	4.337	27.467	27.340	1.00 4		
ATOM	789	СЗ	ALA	927	5.786	27.752	26.970	1.00		6
ATOM	790	C	ALA	927	4.272	26.297	28.314	1.00 4		6
MOTA	791	0	ALA	927	3.725	25.256	27.984	1.00 4	17.80	8
ATOM	792	N	ILE	928	4.850	25.439	29.499	1.00 4	14.35	7
ATOM	793	CA	ILE	928	4.810	25.346	30.457	1.00 4	44.35	6
ATOM	794	CB	ILE	928	5.155	25.837	31.868	1.00 6	57.81	6
ATOM	795	CG2	ILE	928	5.834	24.735	32.641	1.00 2		6
MOTA	796	CG1	ILE	928	6.130	27.004	31.806	1.00 2		6
				928				1.00 2		6
ATOM	797	CD1			7.542	26.594	31.485			6
ATOM	798	C	ILE	928	3.410	24.718	30.494	1.00 4		
ATOM	799	0	ILE	928	3.266	23.499	30.626	1.00 4		8
MOTA	800	N	ALA	929	2.390	25.562	30.346	1.00 4	12.29	7
MOTA	801	CA	ALA	929	0.984	25.135	30.390	1.00 4	12.29	6
ATOM	802	CB	ALA	929	0.118	26.315	30.676	1.00	5.26	6
ATOM	803	С	$AI_{L}A$	929	0.457	24.440	29.156	1.00 4	2.29	6
ATOM	804	0	ALA	929	-0.225	23.429	29.252	1.00 4	2.29	8
ATOM	805	N	ASN	930	0.745	24.995	27.994	1.00 3	6.17	7
ATOM	806	CA	ASN	930	0.259	24.398	26.775	1.00 3		6
								1.00 5		6
ATOM	807	CB	ASN	930	-0.230	25.506	25.852			
MOTA	808	CG	ASN	930	-1.444	26.223	26.430	1.00 5		6
MOTA	809		ASN	930	-2.586	25.742	26.344	1.00 5		8
ATOM	810	ND2	ASN	930	-1.202	27.360	27.057	1.00 5	7.20	7
ATOM	811	C	ASN	930	1.295	23.486	26.128	1.00 3	6.17	6
ATOM	812	0	ASN	930	1.088	22.976	25.028	1.00 3	6.17	8
ATOM	813	N	SER	931	2.401	23.259	26.834	1.00 5	0.28	7
ATOM	814	CA	SER	931	3.468	22.383	26.353	1.00 5	0.28	6
ATOM	815	CB	SER	931	2.986	20.930	26.341	1.00 9	0.81	6
ATOM	816	OG	SER	931	2.790	20.433	27.659	1.00 9		8.
ATOM	817	C	SER	931	4.006	22.748	24.979	1.00 5		6
							24.258	1.00 5		8
ATOM	818	0	SER	931	4.484	21.889				7
MOTA	819	N	THR	932	3.918	24.023	24.622	1.00 4		
ATOM	820	CA	THR	932	4.397	24.510	23.334	1.00 4		6
ATOM	821	CB	THR	932	3.443	25.591	22.749	1.00 7		6
ATOM	822	OG1	THR	932	3.247	26.634	23.711	1.00 7	9.61	8
ATOM	823	CG2	THR	932	2.108	24.989	22.374	1.00 7	9.61	6
ATOM	824	С	THR	932	5.784	25.127	23.483	1.00 4	8.32	6
ATOM	825	0	THR	932	6.046	25.841	24.449	1.00 4	8.32	8
ATOM	826	N	ALA	933	6.667	24.854	22.527	1.00 5	5.05	7
ATOM	827	CA	ALA	933	8.009	25.436	22.552	1.00 5		6
						24.378	22.297	1.00 2		6
ATOM	828	CB	ALA	933	9.057			1.00 2		6
ATOM	829	C	ALA	933	8.051	26.489				
ATOM	830	0 .,	ALA	933		27.339	21.437			8
ATOM	831	N	SER	934			20.543			7
ATOM	832	CA	SER	934	6.978	27.340	19.469	1.00 2		6
ATOM	833	CB	SER	934	7.937	27.003	18.341	1.00 3	6.98	6
ATOM	834	OG	SER	934	7.630	27.748	17.167	1.00 3	6.98	8
ATOM	835	C	SER	934	5.552	27.315	18.959	1.00 2	7.13	6
ATOM	836	ō	SER	934	4.897	26.270	19.001	1.00 2		8
	837	И	THR	935	5.080	28.468	18.488	1.00 1		7
ATOM							17.963	1.00 1		6
ATOM	838	CA	THR	935	3.740	28.582				
ATOM	839	CB	THR	935	3.387	30.101	17.642	1.00 2		6
ATOM	840		THR		4.301	30.658	16.680	1.00 2		8
ATOM	841	CG2	THR	935	3.432	30.930	18.917	1.00 2		6
ATOM	842	C	THR	935	3.652	27.696	16.712	1.00 1		6
ATOM	843	0	THR	935	2.594	27.154	16.407	1.00 1	5.04	8
ATOM	844	N	LEU	936	4.778	27.530	16.015	1.00 4	1.56	7
· ·										

ATOM	845	CA	LEU	936	4.839	26.720	14.788	1.00 41.56	6
MOTA	846	CB	LEU	936	6.005	27.210	13.915	1.00 16.11	6
ATOM	847	CG	LEU	936	5.980	28.713	13.613	1.00 16.11	6
ATOM	848	CD1	LEU	936	7.108	29.067	12.679	1.00 16.11	6
ATOM	849	CD2	LEU	936	4.640	29.083	13.020	1.00 16.11	6
ATOM	850	C	LEU	936	4.958	25.203	15.018	1.00 41.56	6
MOTA	851	0	LEU	936	5.433	24.744	16.063	1.00 41.56	8
MOTA	852	N	SER	937	4.524	24.440	14.021	1.00 27.35	7
ATOM	853	CA	SER	937	4.551	22.989	14.081	1.00 27.35	6
MOTA	854	CB	SER	937	3.167	22.438	13.764	1.00 9.94	6
ATOM	855	OG	SER	937	2.884	22.429	12.374	1.00 9.94	8
ATOM	85 <i>6</i>	C	SER	937	5.574	22.357	13.128	1.00 27.35	6
ATOM	857	0	SER	937	6.180	23.041	12.291	1.00 27.35	8
MOTA	858	N	SER	938	5.752	21.043	13.257	1.00 23.83	7
MOTA	859	CA	SER	938	6.689	20.294	12.431	1.00 23.83	6
MOTA	860	CB	SER	938	6.678	18.813	12.838	1.00 31.90	6
MOTA	861	OG	SER	938	7.011	17.966	11.741	1.00 31.90	8
MOTA	862	С	SER	938	6.362	20.431	10.943	1.00 23.83	6
MOTA	863	0	SER	938	7.256	20.590	10.121	1.00 23.83	8
ATOM	864	N	$_{ m GLN}$	939	5.083	20.382	10.597	1.00 34.70	7
ATOM	865	CA	GLN	939	4.704	20.491	9.206	1.00 34.70	6
ATOM	866	CB	GLN	939	3.296	19.955	9.022	1.00 40.81	6
ATOM	867	CG	${\tt GLN}$	939	3.189	18.544	9.538	1.00 40.81	6
ATOM	868	CD	GLN	939	4.026	17.558	8.732	1.00 40.81	б
ATOM	869	OEl	${\tt GLN}$	939	3.584	17.084	7.675	1.00 40.81	8
MOTA	870	NE2	${\tt GLN}$	939	5.243	17.254	9.216	1.00 40.81	7
ATOM	871	C	GLN	939	4.838	21.906	8.685	1.00 34.70	6
ATOM	872	O .	GLN	939	5.352	22.096	7.592	1.00 34.70	8
ATOM	873	N	GLN	940	4.388	22.906	9.435	1.00 22.70	7
ATOM	874	CA	GLN	940	4.556	24.267	8.950	1.00 22.70	6
ATOM	875	CB	GLN	940	4.094	25.286	9.986	1.00 30.92	6
ATOM	876	CG	GLN	940	4.588	26.679	9.679	1.00 30.92	6
ATOM	877	CD	GLN	940	3.663	27.483	8.790	1.00 30.92	6
ATOM	878	OEl	GLN	940	2.738	28.141	9.277	1.00 30.92	8
ATOM	879	NE2	GLN	940	3.891	27.427	7.482	1.00 30.92	7
ATOM	880	C	GLN	940	6.047	24.501	8.632	1.00 22.70	б
ATOM	881	0	GLN	940	6.381	25.050	7.574	1.00 22.70	8
ATOM	882	Ν.	LEU	941	6.934	24.076	9.535	1.00 22.33	7 .
ATOM	883	CA	LEU	941	8.377	24.242	9.348	1.00 22.33	6
ATOM	884	CB	LEU	941	9.137	23.858	10.599	1.00 19.37	6
ATOM	885	CG	LEU	941	8.939	24.738	11.806	1.00 19.37	б
ATOM	886	CD1	LEU	941	9.540	23.981	12.995	1.00 19.37	6
ATOM	887	CD2		941	9.613	26.094	11.606	1.00 19.37	6
MOTA	888	ć	LEU	941	8.956	23.427	8.202	1.00 22.33	6
ATOM	889	0 .	LEU	941	9.994	23.781	7.648	1.00 22.33	8
ATOM	890	N	LEU	942	8.334	22.308	7.869	1.00 30.49	7
MOTA	891	CA	LEU	942	8.877	21.545	6.765	1.00 30.49	6
ATOM	892	CB	LEU	942	8.370	20.098	6.748	1.00 27.17	6
ATOM	893	CG	LEU	942	8.901	19.138	7.816	1.00 27.17	6
ATOM	894		LEU	942	8.244	17.799	7.576	1.00 27.17	6
ATOM	895		LEU	942	10.399	18.997	7.776	1.00 27.17	6
ATOM	896	C	LEU	942	8.445	22.285	5.517	1.00 30.49	6
ATOM	897	0	LEU	942	9.211	22.408	4.582	1.00 30.49	8
MOTA	898	N	HIS	943	7.224	22.405	5.502	1.00 24.87	7
MOTA	899	CA	HIS	943	6.766	23.543	4.331	1.00 24.87	6
ATOM	900	CB	HIS	943	5.393	24.127	4.565	1.00 75.69	6
ATOM	901	CG	HIS	943	4.306	23.142	4.316	1.00 75.69	6
ALON	J U 1		****	ノモン	4.505	,			-
								•	

									_
MOTA	902	CD2	HIS	943	3.224	23.187	3.507	1.00 75.69	6
ATOM	903	ND1	HIS	943	4.317	21.892	4.884	1.00 75.69	7
ATOM	904	CE1	HIS	943	3.284	21.198	4.431	1.00 75.69	6
ATOM	905	NE2	HIS	943	2.608	21.960	3.596	1.00 75.69	7
ATOM	906	С	HIS	943	7.727	24.644	3.967	1.00 24.87	6
ATOM	907		HIS	943	8.112	24.794	2.815	1.00 24.87	8
ATOM	908	N	PHE	944	8.107	25.412	4.976	1.00 23.28	7
ATOM	909	CA	PHE	944	9.049	26.499	4.812	1.00 23.28	6
	910	CB	PHE	944	9.379	27.069	6.196	1.00 24.44	6
ATOM	911	CG	PHE	944	8.293	27.953	6.782	1.00 24.44	6
ATOM		CD1		944	8.361	28.370	8.101	1.00 24.44	6
ATOM	912			944	7.282	28.477	5.983	1.00 24.44	6
MOTA	913			944	7.449	29.299	8.598	1.00 24.44	6
ATOM	914	CEl			6.372	29.406	6.489	1.00 24.44	6
ATOM	915		PHE	944			7.792	1.00 24.44	6
ATOM	916	CZ	PHE	944	6.466	29.815		1.00 23.28	6
ATOM	917	C	PHE	944	10.301	26.011	4.079		8
ATOM	918	0	PHE	944	10.778	26.675	3.164	1.00 23.28	7
ATOM	919	N	ALA	945	10.829	24.855	4.470	1.00 15.27	
ATOM	920	CA	ALA	945	11.996	24.310	3.799	1.00 15.27	6
MOTA	921	CB	ALA	945	12.627	23.197	4.645	1.00 55.81	6
MOTA	922	С	ALA	945	11.644	23.804	2.386	1.00 15.27	б
ATOM	923	0	ALA	945	12.493	23.819	1.517	1.00 15.27	8
ATOM	924	N	ALA	946	10.408	23.368	2.139	1.00 9.68	7
ATOM	925	CA	ALA	946	10.011	22.897	0.795	1.00 9 <i>.</i> 68	6
ATOM	926	CB	ALA	946	8.734	22.042	0.869	1.00 20.69	6
ATOM	927	C	ALA	946	9.760	24.088	-0.114	1.00 9.68	6
	928	0	ALA	946	10.026	24.032	-1.319	1.00 9.68	8
ATOM	929	N	ASP	947	9.205	25.149	0.471	1.00 24.26	7
ATOM		CA	ASP	947	8.922	26.379	-0.245	1.00 24.26	6
ATOM	930		ASP	947	8.300	27.430	0.671	1.00 51.33	6
ATOM	931	CB		947	6.870	27.122	1.021	1.00 51.33	6
ATOM	932	CG	ASP		6.378	26.066	0.572	1.00 51.33	8
MOTA	933	OD1		947		27.934	1.740	1.00 51.33	8
ATOM	934	OD2		947	6.248		-0.772	1.00 24.26	6
ATOM	935	C	ASP	947	10.231	26.909	-1.979	1.00 24.26	8
ATOM	936	0	ASP	947	10.378	27.109		1.00 24.23	7
MOTA	937	N	VAL	948	11.192	27.120	0.123	1.00 17.83	6
ATOM	938	CA	VAL	948	12.458	27.641	-0.335		6
ATOM	939	CB	VAL	948	13.483	27.833	0.788		6
ATOM	940	CG1	$_{ m LAV}$	948	14.786	28.296	0.175	1.00 5.04	
ATOM	941	CG2	VAL	948	13.012	28.856	1.801	1.00 5.04	6
ATOM	942	С	VAL	948	13.078	26.766	-1.412	1.00 17.83	6
ATOM	943.	٥	VAL	948	13.514	27.304	-2.425	1.00 17.83	8
ATOM	944	Ń	ALA	949	13.115	25.442	-1.219	1.00 24.98	7
ATOM	945	CA	ALA	949	13.697	24.531	-2.221	1.00 24.98	6
ATOM	946	CB	ALA	949	13.827	23.129	-1.666	1.00 53.47	6
ATOM	947	C	ALA	949	12.882	24.505	-3.505	1.00 24.98	6
ATOM	948	0	ALA	949	13.440	24.313	-4.576	1.00 24.98	8
	949	N	ARG	950	11.570	24.716	-3.413	1.00 23.96	7
ATOM		CA	ARG	950	10.742	24.733	-4.617	1.00 23.96	6
MOTA	950		ARG	950	9.239	24.736	-4.282	1.00 30.38	6
ATOM	951	CB				24.730	-5.419	1.00 30.38	6
ATOM	952	CG	ARG	950	8.302		-5.415	1.00 30.38	6
MOTA	953	CD	ARG	950	6.829	24.454	-3.648	1.00 30.38	7
MOTA	954	NE	ARG	950	6.567	24.306		1.00 30.38	6
ATOM	955	CZ	ARG	950	6.313	23.154	-3.030		7
ATOM	956	NH1	ARG	950	6.270	22.013	-3.723	1.00 30.38	7
MOTA	957	NH2	ARG	950	6.132	23.146	-1.708	1.00 30.38	6
ATOM	958	C	ARG	950	11.091	25.997	-5.391	1.00 23.96	J

		_						1 00 33 06	
ATOM	959	0	ARG	950	11.089	26.003	-6.617	1.00 23.96 1.00 35.74	8 7
ATOM	960	N	GLY	951	11.409 11.749	27.064	-4.667 -5.323	1.00 35.74	6
ATOM	961	CA	GLY	951		28.315		1.00 35.74	6
ATOM	962	C	GLY	951	13.156	28.338	-5.890 -6.850	1.00 35.74	8
ATOM	963	0	GLY	951 952	13.439 14.050	29.046 27.562	-5.294	1.00 35.74	7
ATOM	964	N	MET				-5.755	1.00 35.49	6
ATOM	965	CA	MET	952	15.430	27.512	-4.656	1.00 28.83	6
ATOM	966	CB	MET	952 053	16.335	26.979 27.981	-3.562	1.00 28.83	6
ATOM	967	CG	MET	952	16.616		-4.180	1.00 28.83	16
MOTA	968	SD	MET	952	17.396	29.511	-4.732	1.00 28.83	-6
ATOM	969	CE	MET	952	18.963		-6.972	1.00 25.33	6
MOTA	970	C	MET	952	15.553	26.645 26.786	-7.759	1.00 35.49	8
ATOM	971	0	MET	952	16.480		-7.119	1.00 33.45	7
ATOM	972	N	ASP	953	14.623	25.723 24.863	-8.277	1.00 22.04	6
ATOM	973	CA	ASP	953	14.658		-8.277	1.00 22.04	6
ATOM	974	CB	ASP	953	13.701	23.708	-9.095	1.00 46.74	6
ATOM	975	CG	ASP	953	13.868	22.649	-9.119	1.00 46.74	8
ATOM	976		ASP	953	14.938	22.016	-9.894	1.00 46.74	8
ATOM	977		ASP	953	12.934	22.479	-9.534	1.00 22.04	6
ATOM	978	C	ASP	953	14.285		-10.600	1.00 22.04	8
MOTA	979	0	ASP	953	14.796		-9.391	1.00 22.04	7
ATOM	980	N	TYR	95 <u>4</u>	13.388	26.620	-10.506	1.00 30.73	6
ATOM	981	CA	TYR	954	12.969		-10.120	1.00 46.88	6
ATOM	982	CB	TYR	954	11.735		-11.180	1.00 46.88	6
ATOM	983	CG	TYR	954	11.212		-12.198	1.00 46.88	6
MOTA	984	CD1	TYR	954	10.358		-13.139	1.00 46.88	6
ATOM	985	CE1	TYR	954	9.817		-11.131	1.00 46.88	.6
ATOM	986	CD2	TYR	954	11.523		-12.071	1.00 46.88	6
ATOM	987	CE2	TYR	954	10.987		-13.062	1.00 46.88	6
ATOM	988	CZ	TYR	954	10.139 9.618		-13.980	1.00 46.88	8
ATOM	989	OH	TYR	954			-10.820	1.00 30.73	6
ATOM	990	C	TYR	954	14.104 14.484		-11.961	1.00 30.73	8
MOTA	991	0	TYR	954	14.464	29.048	-9.801	1.00 22.51	7
ATOM	992	N	LEU	955 955	15.727		-10.043	1.00 22.51	6
MOTA	993	CA	LEU	955 955	16.100	30.747	-8.771	1.00 36.85	6
ATOM	994	CB	LEU LEU	955 955	15.100	31.699	-8.184	1.00 36.85	6
ATOM	995	CG			15.708	32.365	-7.021	1.00 36.85	6
ATOM	996		LEU	955	14.586	32.734	-9.210	1.00 36.85	6
ATOM	997	CD2	LEU	955 955	16.963	29.355	-10.619	1.00 22.51	6
ATOM	998	C 0	LEU	955 955	17.530		-11.560	1.00 22.51	8
ATOM	999		LEU SER	956	17.403		-10.080	1.00 31.05	7
ATOM	1000	N.		956 956	18.608		-10.615	1.00 31.05	6
ATOM	1001	CA	SER	956 956	18.998	26.380	-9.778	1.00 57.17	6
ATOM	1002	CB	SER		18.077	25.324	-9.989	1.00 57.17	8
ATOM	1003	OG C	SER	956 056	18.439		-12.084	1.00 31.05	6
MOTA	1004	С	SER	956 056	19.379		-12.858	1.00 31.05	8
ATOM	1005	0	SER	956 057	17.247		-12.462	1.00 19.64	7
ATOM	1006	N	GLN	957	16.932		-13.841	1.00 19.64	б
ATOM	1007	CA	GLN	957			-13.899	1.00 97.55	6
ATOM	1008	CB	GLN	957	15.580		-13.355	1.00 97.55	6
ATOM	1009	CG	GLN	957 957	15.565		-13.539	1.00 97.55	6
ATOM	1010	CD	GLN	957	16.884		-14.568	1.00 97.55	8
MOTA	1011	OE1		957	17.543		-14.566	1.00 97.55	7
ATOM	1012	NE2	GLN	957	17.275		-12.332	1.00 19.64	6
MOTA	1013	C	GLN	957	16.901		-14.860	1.00 19.64	8
ATOM	1014	0	GLN	957	16.903			1.00 13.04	7
ATOM	1015	N	LYS	958	16.815	∠0.000	-14.370	1.00 37.02	•

ATOM	1016	CA	LYS	958	16.801	29.851	-15.205	1.00 37.82	6
ATOM	1017	CB	LYS	958	15.881	30.918	-14.601	1.00 51.85	6
ATOM	1018	CG	LYS	958	14.374	30.580	-14.569	1.00 51.85	б
ATOM	1019	CD	LYS	958	13.831	30.551	-15.986	1.00 51.85	6
MOTA	1020	CE	LYS	958	12.345	30.408	-15.083	1.00 51.85	б
MOTA	1021	NZ	LYS	958	12.076	30.168	-17.526	1.00 51.85	7
ATOM	1022	C	LYS	958	18.236	30.355	-15.192	1.00 37.82	6
ATOM	1023	0	LYS	958	18.528	31.466	-15.641	1.00 37.82	8
ATOM	1024	N	GLN	959	19.129	29.546	-14.634	1.00 37.14	7
MOTA	1025	CA	GLN	959	20.543	29.885	-14.550	1.00 37.14	6
ATOM ·	1026	CB	GLN	959	21.078	30.229	-15.942	1.00 59.23	6
ATOM	1027	CG	GLN	959	20.943	29.096	-16.925	1.00 59.23	6
ATOM	1028	CD	GLN	959	21.605	27.827	-16.441	1.00 59.23	6
ATOM	1029	OE1	GLN	959	22.832	27.742	-16.372	1.00 59.23	8
MOTA	1030	NE2	GLN	959	20.790	26.844	-16.047	1.00 59.23	7
MOTA	1031	C	GLN	959	20.914	31.004	-13.559	1.00 37.14	6
ATOM	1032	0	GLN	959	21.937	31.669	-13.751	1.00 37.14	8
ATOM	1033	N	PHE	960	20.097	31.201	-12.519	1.00 48.69	7
ATOM	1034	CA	PHE	960	20.369	32.208	-11.492	1.00 48.69	6
ATOM	1035	CB	PHE	960	19.067	32.712	-10.840	1.00 18.22	6
ATOM	1036	CG	PHE	960	18.261	33.647	-11.686	1.00 18.22	6
ATOM	1037	CD1	PHE	960	17.426	33.166	-12.686	1.00 18.22	6
ATOM	1038	CD2	PHE	960	18.343	35.023	-11.493	1.00 18.22	6
ATOM	1039	CEI	PHE	960	16.677	34.044	-13.502	1.00 18.22	6
ATOM	1040	CE2	PHE	960	17.607	35.908	-12.296	1.00 18.22	6
ATOM	1041	CZ	PHE	960	16.777	35.415	-13.301	1.00 18.22	6
ATOM	1042	С	PHE	960	21.225	31.549	-10.402	1.00 48.69	6
ATOM	1043	0	PHE	960	21.203	30.329	-10.251	1.00 48.69	8
ATOM	1044	N	ILE	961	22.000	32.348	-9.674	1.00 25.93	7
ATOM	1045	CA	ILE	961	22.814	31.840	-8.561	1.00 25.93	6
ATOM	1046	CB	ILE	961	24.347	31.827	-8.883	1.00 5.00	6
MOTA	1047	CG2	ILE	961	25.140	31.201	-7.756	1.00 5.00	6
ATOM	1048	CG1	ILE	961	24.610	31.048	-10.132	1.00 5.00	6
ATOM	1049	CD1	ILE	961	25.990		~10.676	1.00 5.00	6
ATOM	1050	C	ILE	961	22.542	32.864	-7.449	1.00 25.93	6
ATOM	1051	0	ILE	961	22.658	34.061	-7.689	1.00 25.93	8
ATOM	1052	N	HIS	962	22.193	32.412	-6.247	1.00 38.00	7
ATOM	1053	CA	HIS	962	21.871	33.355	-5.180	1.00 38.00	6
ATOM	1054	CB	HIS	962	21.093	32.661	-4.072	1.00 25.73	õ
ATOM	1055	CG	HIS	962	20.206	33.579	-3.289	1.00 25.73	б
ATOM	1056	CD2		962	20.482	34.461	-2.308	1.00 25.73	6
ATOM	1057	ND1		962	18.846	33.614	-3.475	1.00 25.73	7
ATOM	1058	CEI		962	18.315	34.478	-2.625	1.00 25.73	6
ATOM	1059	NE2		962	19.282	35.004	-1.903	1.00 25.73	7
ATOM	1060	C	HIS	962	23.054	34.079	-4.573	1.00 38.00	6
ATOM	1061	0	HIS	962	23.119	35.303	-4.637	1.00 38.00	8
ATOM	1062	N	ARG	963	23.972	33.338	-3.958	1.00 61.33	7
		CA	ARG	963	25.152	33.932	-3.334	1.00 61.33	6
ATOM	1063 1064	CB	ARG	963	25.855	34.907	-4.306	1.00 42.94	6
ATOM				963	25.864	34.466	-5.753	1.00 42.94	6
ATOM	1065	CG	ARG				-6.571	1.00 42.94	6
ATOM	1066	CD	ARG	963	26.986 26.799	35.078	-6.929	1.00 42.94	7
ATOM	1067	NE	ARG	963		36.481		1.00 42.94	6
ATOM	1068	CZ	ARG	963	26.940	37.488	-6.079	1.00 42.94	7
ATOM	1069		ARG	963	27.268	37.258	-4.809 6.509	1.00 42.94	7
ATOM	1070		ARG	963	26.752	38.723	-6.508		6
MOTA	1071	C	ARG	963	24.756	34.688	-2.062	1.00 61.33	8
MOTA	1072	0	ARG	963	25.543	35.464	-1.528	1.00 61.33	σ

PCT/US01/08853

ATOM 1073 N ASN 964 23.549 34.460 -1.561 1.00 37.36 7
ATOM 1074 CA ASN 964 23.111 35.212 -0.384 1.00 37.36 6
ATOM 1076 CG ASN 964 23.313 37.670 0.107 1.00 69.75 6
ATOM 1076 CG ASN 964 23.313 37.670 0.107 1.00 69.75 6
ATOM 1077 OD1 ASN 964 23.313 37.670 0.107 1.00 69.75 6
ATOM 1078 ND2 ASN 964 23.313 37.670 0.107 1.00 69.75 8
ATOM 1078 ND2 ASN 964 23.313 37.670 0.107 1.00 69.75 8
ATOM 1078 ND2 ASN 964 21.999 34.573 0.273 1.00 37.36 6
ATOM 1078 ND2 ASN 964 21.999 34.573 0.273 1.00 37.36 6
ATOM 1080 C ASN 964 21.999 34.573 0.273 1.00 37.36 6
ATOM 1081 N LEU 965 21.812 33.258 0.133 1.00 45.72 6
ATOM 1081 N LEU 965 21.812 33.258 0.133 1.00 45.72 6
ATOM 1084 CG LEU 965 20.691 32.930 -0.082 1.00 22.49 6
ATOM 1084 CG LEU 965 19.348 30.261 -0.002 1.02 2.49 6
ATOM 1086 CD2 LEU 965 19.565 29.461 1.252 1.00 22.49 6
ATOM 1086 CD2 LEU 965 19.567 29.444 -1.189 1.00 22.49 6
ATOM 1087 C LEU 965 21.852 31.830 2.515 1.00 45.72 6
ATOM 1087 C LEU 965 21.867 32.180 2.151 1.00 45.72 6
ATOM 1089 N ALA 966 19.899 32.655 2.946 1.00 9.29 7
ATOM 1090 CA ALA 966 19.899 32.655 2.946 1.00 9.29 7
ATOM 1091 CB ALA 966 19.899 32.655 2.946 1.00 9.29 7
ATOM 1092 C ALA 966 19.899 32.656 2.948 1.00 9.29 7
ATOM 1091 CB ALA 966 19.899 32.656 2.948 1.00 9.29 7
ATOM 1092 C ALA 966 17.623 32.936 4.107 1.00 9.29 8
ATOM 1091 CB ALA 966 17.623 32.936 4.107 1.00 9.29 8
ATOM 1092 C ALA 966 17.623 32.936 4.107 1.00 9.29 8
ATOM 1095 CA ALA 966 17.623 32.936 6.277 1.00 20.93 6
ATOM 1096 CB ALA 967 16.627 32.846 6.277 1.00 20.93 6
ATOM 1097 C ALA 966 17.623 32.936 6.277 1.00 20.93 6
ATOM 1098 N ALA 966 17.623 32.936 6.277 1.00 20.93 6
ATOM 1099 C ALA 966 17.623 32.936 6.277 1.00 20.93 6
ATOM 1090 CA ALA 966 17.623 32.936 6.277 1.00 20.93 6
ATOM 1091 CB ALA 967 16.627 32.847 7.98 1.00 8.30 6
ATOM 1092 C ALA 966 17.623 32.946 6.277 1.00 20.93 6
ATOM 1094 N ALA 967 16.627 32.846 6.277 1.00 20.93 6
ATOM 1096 CB ALA 967 16.627 32.936 7.938 1.00 1.00 2.937 6
ATOM 1097 C ALA 966 17.623 82.938 1.00 1.00 2.938 6
ATOM 1098 N ARG 968 17.433 93.939 2.948 1.00 93.93 6
ATOM 1

ATOM	1130	CD1	LEU	971	11.197	39.762	1.249	1.00 23.00	6
ATOM	1131	CD2	LEU	971	10.990	40.054	3.689	1.00 23.00	6
ATOM	1132	С	LEU	971	8.984	35.910	3.465	1.00 27.06	6
ATOM	1133	0	LEU	971	8.730	35.192	2.511	1.00 27.06	8
MOTA	1134	N	VAL	972	8.218	35.967	4.558	1.00 35.27	7
MOTA	1135	CA	VAL	972	6.974	35.188	4.710	1.00 35.27	6
ATOM	1136	CB	VAL	972	6.641	34.916	6.237	1.00 15.12	6
ATOM	1137	CG1	VAL:	972	5.384	34.069	6.387	1.00 15.12	6
ATOM	1138	CG2	VAL	972	7.806	34.239	6.917	1.00 15.12	6
MOTA	1139	С	VAL	972	5.805	35.979	4.086	1.00 35.27	6
MOTA	1140	0	VAL	972	5.220	36.848	4.727	1.00 35.27	8
ATOM	1141	N	GLY	973	5.466	35.686	2.841	1.00 28.86	7
MOTA	1142	CA	GLY	973	4.378	36.404	2.212	1.00 28.86	6
ATOM	1143	С	GLY	973	3.021	35.983	2.743	1.00 28.86	6
ATOM	1144	0	GLY	973	2.933	35.251	3.734	1.00 28.86	8
ATOM	1145	N	GLU	974	1.954	36.429	2.092	1.00 36.97	7
ATOM	1146	CA	GLU	974	0.621	36.081	2.554	1.00 36.97	6
ATOM	1147	CB	GLU	974	-0.434	36.662	1.619	1.00 98.72	6
ATOM	1148	CG	GLU	974	-1.001	37.980	2.107	1.00 98.72	6
ATOM	1149	CD	GLU	974	-1.619	37.873	3.503	1.00 98.72	6
ATOM	1150		GLU	974	-2.364	36.904	3.759	1.00 98.72	8
ATOM	1151	OE2	GLU	974	-1.368	38.763	4.342	1.00 98.72	8
ATOM	1152	C	GLU ,	974	0.418	34.585	2.720	1.00 36.97	6
ATOM	1153	0	GLU	974	1.049	33.768	2.034	1.00 36.97	8
ATOM	1154	N	ASN	975	-0.474	34.253	3.649	1.00 50.17	7
ATOM	1155	CA	ASN	975	-0.474	32.878	3.980	1.00 50.17	6
ATOM	1156	CB	ASN	975					
ATOM	1157	CG	ASN ASN		-1.496 -2.900	32.190	2.812	1.00 49.51	6
				975		32.725	2.577	1.00 49.51	6
ATOM	1158		ASN	975	-3.688	32.145	1.834	1.00 49.51	8
ATOM	1159		ASN	975	-3.218	33.851	3.213	1.00 49.51	7
ATOM	1160	C	ASN	975	0.432	32.122	4.392	1.00 50.17	6
ATOM	1161	0	ASN	975	0.528	30.910	4.222	1.00 50.17	8
ATOM	1162	N	TYR	976	1.386	32.871	4.931	1.00 34.67	7
ATOM	1163	CA	TYR	976	2.637	32.335	5.427	1.00 34.67	6
ATOM	1164	CB	·TYR	976	2.386	31.613	6.734	1.00 32.84	6
ATOM	1165	CG	TYR	976	1.690	32.497	7.736	1.00 32.84	6
MOTA	1166	CD1	TYR	976	0.309	32.654	7.715	1.00 32.84	6
MOTA	1167	CEl	TYR	976	-0.328	33.464	8.525	1.00 32.84	6
ATOM	1168	CD2	TYR	976	2.411	33.182	8.693	1.00 32.84	6
ATOM	1169	CE2	TYR	976	1.792	33.991	9.602	1.00 32.84	6
MOTA	1170	CZ	TYR	976	0.422	34.129	9.571	1.00 32.84	6
MOTA	1171	OH	TYR	976	-0.210	34.897	10.515	1.00 32.84	8
ATOM	1172	C:	TYR	976	3.376	31.440	4.475	1.00 34.67	6
ATOM	1173	o`	TYR	976	. 3.903	30.410	4.875	1.00 34.67	8
ATOM	1174	N	VAL	977	3.436	31.857	3.217	1.00 16.20	7
ATOM	1175	CA	VAL	977	4.135	31.111	2.181	1.00 16.20	6
ATOM	1176	CB	VAL	977	3.297	31.091	0.876	1.00 9.07	6
ATOM	1177	CG1	VAL	977	4.187	30.767	-0.331	1.00 9.07	6
ATOM	1178	CG2	VAL	977	2.153	30.102	1.005	1.00 9.07	6
ATOM	1179	C	VAL	977	5.490	31.755	1.900	1.00 16.20	6
MOTA	1180	0	VAL	977	5.545	32.795	1.284	1.00 16.20	8
ATOM	1181	N	ALA	978	6.571	31.126	2.337	1.00 15.88	7
ATOM	1182	CA	ALA	978	7.924	31.643	2.141	1.00 15.88	6
ATOM	1183	CB	ALA	978	8.940	30.547	2.489	1.00 21.88	6
ATOM	1184	C	ALA	978	8.238	32.215	0.757	1.00 15.88	6
ATOM	1185	0	ALA	978	7.905	31.630	-0.268	1.00 15.88	8
ATOM	1186	N	LYS	979	8.920	33.352	0.736	1.00 28.57	7
WI OIL	* 100	7.4	حديد	113	0.320	٥٥.٥٥٤	0./30	1.00 40.37	,

					0.004	74 077	-0.508	1.00 28.57	6
MOTA	1187	CA	LYS	979	9.284	34.011 35.289	-0.508	1.00 25.57	6
ATOM	1188	CB	LYS	979	8.468 6.969		-0.838	1.00 15.51	6
ATOM	1189	CG	LYS	979		35.078	-2.297	1.00 15.51	6
MOTA	1190	CD	LYS	979	6.698	34.786	-2.662	1.00 15.51	6
ATOM	1191	CE	LYS	979	5.254	35.044 34.606	-1.545	1.00 15.51	7
MOTA	1192	NZ	LYS	979	4.388		-0.506	1.00 28.57	6
MOTA	1193	C	LYS	979	10.800	34.294	0.525	1.00 28.57	8
MOTA	1194	0	LYS	979	11.348	34.679	-1.655	1.00 23.28	7
MOTA	1195	N	ILE	980	11.458	34.082	-1.815	1.00 23.28	6
MOTA	1196	CA	ILE	980	12.914	34.271	-2.812	1.00 23.20	6
MOTA	1197	CB	ILE	980	13.507	33.236	-3.046	1.00 12.16	6
MOTA	1198	CG2	ILE	980	14.986	33.535	-2.268	1.00 12.16	6
ATOM	1199	CG1	ILE	980	13.309	31.804	-3.319	1.00 12.16	6
MOTA	1200	CD1	ILE	980	13.475	30.688		1.00 23.28	6
MOTA	1201	C	ILE	980	13.270	35.665	-2.301	1.00 23.28	8
MOTA	1202	0	ILE	980	12.739	36.135	-3.292	1.00 23.23	7
MOTA	1203	N	ALA	981	14.185	36.335	-1.623	1.00 30.98	6
MOTA	1204	CA	ALA	981	14.538	37.683	-2.040		6
MOTA	1205	CB	ALA	981	13.810	38.664	-1.156		6
MOTA	1206	C	ALA	981	16.047	37.959	-2.021	1.00 30.98 1.00 30.98	8
MOTA	1207	0	ALA	981	16.840	37.172	-1.499		7
MOTA	1208	N	ASP	982	16.433	39.094	-2.589	1.00 70.73 1.00 70.73	6
ATOM	1209	CA	ASP	982	17.834	39.511	-2.652		6
MOTA	1210	CB	ASP	982	18.327	39.939	-1.272		6
MOTA	1211	CG	ASP	982	19.512	40.861	-1.358	1.00 99.58	8
MOTA	1212	OD1	ASP	982	19.287	42.012	-1.783	1.00 99.58 1.00 99.58	8
MOTA	1213	OD2	ASP	982	20.646	40.436	-1.039		6
MOTA	1214	C	ASP	982	18.821	38.488	-3.199	1.00 70.73	8
ATOM	1215	0	ASP	982	19.686	38.005	-2.477	1.00 70.73	7
MOTA	1216	N	PHE	983	18.703	38.184	-4.479	1.00 67.82	6
ATOM	1217	CA	PHE	983	19.595	37.229	-5.095	1.00 67.82	
MOTA	1218	CB	PHE	983	18.781	36.124	-5.784	1.00 46.69	6
MOTA	1219	CG	PHE	983	17.480	36.593	-6.382	1.00 46.69	6
ATOM	1220	CD1	PHE	983	17.423	37.752	-7.143	1.00 46.69	6
MOTA	1221	CD2	PHE	983	16.317	35.852	-6.222	1.00 46.69	6 6
MOTA	1222	CE1	PHE	983	16.229	38.166	-7.737	1.00 46.69	
ATOM	1223	CE2	PHE	983	15.122	36.259	-6.814	1.00 46.69	6
ATOM	1224	CZ	PHE	983	15.080	37:413	-7.570	1.00 46.69	6
ATOM	1225	С	PHE	983	20.552	37.905	-6.081	1.00 67.82	6
MOTA	1226	0	PHE	983	20.451	39.112	-6.338	1.00 67.82	8
ATOM	1227	N	GLY	984	21.497	37.128	-6.599	1.00 44.02	7
ATOM	1228.	ÇA	\mathtt{GLY}	984	22.467	37.644	-7.543	1.00 44.02	6
ATOM	1229	Ċ	GLY	984	21.911	37.639	-8.954	1.00 44.02	6
ATOM	1230	0	GLY	984	21.520	36.599	-9.488	1.00 44.02	8
ATOM	1231	N	LEŰ	985	21.875	38.816	-9.562	1.00100.00	7
ATOM	1232	CA	LEU	985	21.363		-10.917	1.00100.00	6
ATOM	1233	CB	LEU	985	20.792		-11.126	1.00 41.04	6
ATOM	1234	CG	LEU	985	19.455	40.644	-10.434	1.00 41.04	6
MOTA	1235		LEU	985	18.448	39.621	-10.945	1.00 41.04	6
ATOM	1236	CD2		985	19.577	40.549	-8.925	1.00 41.04	6
ATOM	1237	C	LEU	985	22.473	38.670	-11.920	1.00100.00	6
MOTA	1238	Ö	LEU	985	22.517		-13.004	1.00100.00	8
MOTA	1239	N	SER	986	23.383		-11.539	1.00 42.70	7
ATOM	1240	CA	SER	986	24.484		-12.416	1.00 42.70	6
	1241	CB	SER	986	25.818		-11.697	1.00 68.70	6
MOTA	1241	OG	SER	986	25.996		-11.346	1.00 68.70	8
ATOM		C	SER	986	24.295		-12.780	1.00 42.70	6
MOTA	1243	_	المندب	200	=			·	

ATOM	1244	0	SER	986	24.956	35.078		1.00 42.70	8
ATOM	1245	N	ARG	987	23.381	35.697		1.00 47.12	7
MOTA	1246	CA	ARG	987	23.068	34.336		1.00 47.12	5
ATOM	1247	CB	ARG	987	21.873	34.383		1.00 55.43	6
ATOM	1248	CG	ARG	987	20.828	35.354		1.00 55.43	5
MOTA	1249	CD	ARG	987	19.927	35.581		1.00 55.43	6
MOTA	1250	ΝE	ARG	987	19.371	34.311		1.00 55.43	7
ATOM	1251	CZ	ARG	987	18.891	34.116		1.00 55.43	6
MOTA	1252	NHl	ARG	987	18.924		-18.261	1.00 55.43	.7
MOTA	1253	NH2	ARG	987	18.364	32.946		1.00 55.43	7
ATOM	1254	С	ARG	987	24.204	33.608		1.00 47.12	6
MOTA	1255	0	ARG	987	24.990		-15.535	1.00 47.12	8 7
MOTA	1256	N	GLY	988	24.281	32.294		1.00 32.39	6
MOTA	1257	CA	GLY	988	25.330	31.512		1.00 32.39	6
MOTA	1258	С	\mathtt{GLY}	988	25.704	30.203		1.00 32.39	8
ATOM	1259	0	GLY	988	24.832	29.393		1.00 32.39	7
MOTA	1260	N	GLN	989	26.999	29.978		1.00 53.32	6
ATOM	1261	CA	GLN	989	27.473	28.756		1.00 53.32	6
MOTA	1262	CB	GLN	989	28.063	27.789		1.00 52.63 1.00 52.63	6
MOTA	1263	CG	GLN	989	27.056	26.759			6
MOTA	1264	CD	GLN	989	27.583	25.337			8
MOTA	1265	OE1	GLN	989	28.219		-16.052		7
MOTA	1266	NE2	GLN	989	27.355		-13.985	1.00 52.63 1.00 53.32	6
ATOM	1267	C	GLN	989	28.473	28.926			8
MOTA	1268	0	GLN	989	28.683	28.002		1.00 53.32 1.00 57.00	7
MOTA	1269	N	GLU	990	29.082	30.096			6
MOTA	1270	CA	GLU	990	30.072	30.328		1.00 57.00 1.00 60.46	6
ATOM	1271	CB	GLU	990	31.320		-11.858	1.00 60.46	6
MOTA	1272	CG	GLU	990	32.281		-10.745	1.00 60.46	6
MOTA	1273	CD	GLU	990	32.976		-10.927	1.00 60.46	8
ATOM	1274	OE1		990	33.448	27.718		1.00 60.46	8
MOTA	1275	OE2	GLU	990	33.044	27.198	-9.960	1.00 57.00	6
ATOM	1276	C	GLU	990	30.368	31.814		1.00 57.00	8
ATOM	1277	0	GLU	990	30.639	32.363	-12.589	1.00 37.30	7
MOTA	1278	N	VAL	991	30.269		-10.367 -10.285	1.00 47.34	6
MOTA	1279	CA	VAL	991	30.567		-10.203	1.00 25.98	6
ATOM	1280	CB	VAL	991	29.423	34.745	-9.822	1.00 25.98	6
MOTA	1281	CGl		991	29.646	36.247		1.00 25.98	6
MOTA	1282	CG2	VAL	991	28.029	34.365	-10.094	1.00 47.34	6
MOTA	1283	С	VAL	991	31.878	34.057	-9.493 -8.924	1.00 47.34	8
MOTA	1284	0	VAL	991	32.387	33.090	-9.483	1.00 68.84	7
ATOM	1285	Ŋ	TYR	992	32.437	35.262	-8.774	1.00 68.84	6
MOTA	1286	CA	TYR	992	33.683	35.517	-9.765	1.00 49.61	6
MOTA	1287	CB	TYR	992	34.849	35.554	-9.103	1.00 49.61	6
MOTA	1288	CG	TYR	992	36.187	35.817 34.950	-8.127	1.00 49.61	6
MOTA	1289		TYR	992	36.680		-7.465	1.00 49.61	6
ATOM	1290	CE1		992	37.886	35.201	-9.410	1.00 49.61	6
MOTA	1291	CD2		992	36.941	36.947	-8.750	1.00 49.61	6
MOTA	1292	CE2		992	38.154	37.210	-7.780	1.00 49.61	6
MOTA	1293	CZ	TYR	992	38.614	36.333	-7.115	1.00 49.61	8
ATOM	1294	OH	TYR	992	39.785	36.607		1.00 68.84	6
ATOM	1295	С	TYR	992	33.653	36.836	-7.999	1.00 68.84	8
MOTA	1296	0	TYR	992	33.941	37.886	-8.565	1.00 88.04	7
MOTA	1297	N	VAL	993	33.312	36.802	-6.718	1.00 73.45	6
MOTA	1298	CA	VAL	993	33.293	38.048	-5.964	1.00 77.88	6
ATOM	1299	CB	VAL	993	32.078	38.110		1.00 77.88	6
MOTA	1300	CG1	VAL	993	30.812	38.281	-5.857	1.00 //.00	_

ATOM	1301	CG2	VAL	993	32.012	36.866	-4.236	1.00 77.88	6
ATOM	1302	C	VAL	993	34.585	38.227	-5.162	1.00 73.45	6
MOTA	1303	0	VAL	993	35.222	37.248	-4.762	1.00 73.45	8
ATOM	1304	И	LYS	994	34.965	39.483	-4.946	1.00100.00	7
MOTA	1305	CA	LYS	994	36.190	39.825	-4.225	1.00100.00	6
ATOM	1306	CB	LYS	994	37.340	39.934	-5.227	1.00 96.49	6
MOTA	1307	CG	LYS	994	38.693	40.258	-4.635	1.00 96.49	б
ATOM	1308	CD	LYS	994	39.679	40.656	-5.728	1.00 96.49	6
ATOM	1309	CE	LYS	994	40.977	39.891	-5.576	1.00 96.49	6
ATOM	1310	NZ	LYS	994	41.937	40.208	-6.655	1.00 96.49	7
ATOM	1311	С	LYS	994	35.981	41.170	-3.525	1.00100.00	6
ATOM	1312	0	LYS	994	36.298	42.217	-4.089	1.00100.00	8
ATOM	1313	N	LYS	995	35.456	41.135	-2.299	1.00100.00	7
MOTA	1314	CA	LYS	995	35.173	42.337	-1.505	1.00100.00	6
ATOM	1315	CB	LYS	995	36.432	43.233	-1.423	1.00100.00	6
ATOM	1316	C	LYS	995	33.996	43.132	-2.094	1.00100.00	6
ATOM	1317	0	LYS	995	34.079	44.383	~2.139	1.00100.00	8
ATOM	1318		LYS	995	33.001	42.485	-2.484	1.00 85.30	8
TER	1020	0212		<i>330</i>					
ATOM	1319	CB	PRO	1001	26.968	35.804	4.979	1.00 23.69	6
ATOM	1320	CG	PRO	1001	26.527	36.525	3.738	1.00 23.69	6
ATOM	1321	C	PRO	1001	29.219	34.895	5.215	1.00 43.97	6
ATOM	1322	0	PRO	1001	28.910	33.885	4.598	1.00 43.97	8
ATOM	1323	N	PRO	1001	28.835	36.609	3.692	1.00 43.97	7
		CD	PRO	1001	27.692	36.488	2.779	1.00 23.69	6
ATOM	1324		PRO	1001	28.434	36.157	5.028	1.00 43.97	6
ATOM	1325	CA			30.217	34.937	6.077	1.00 30.46	7
ATOM	1326	N	VAL	1002		33.763	6.267	1.00 30.46	6
MOTA	1327	CA	VAL	1002	31.040		7.118	1.00 49.80	6
ATOM	1328	CB	VAL	1002	32.241	34.137	6.632	1.00 49.80	6
MOTA	1329	CG1	VAL	1002	32.805	35.456	8.578	1.00 49.80	6
MOTA	1330	CG2	VAL	1002	31.852	34.219		1.00 30.46	6
ATOM	1331	C	VAL	1002	30.360	32.503	6.834	1.00 30.46	8
MOTA	1332	0	VAL	1002	30.790	31.389	6.553	1.00 40.35	7
MOTA	1333	N	ARG	1003	29.292	32.669	7.596		6
MOTA	1334	CA	ARG	1003	28.643	31.505	8.207	1.00 40.35	6
MOTA	1335	CB	ARG	1003	27.872	31.924	9.444	1.00 42.33	6
MOTA	1336	CG	ARG	1003	28.755	32.265	10.626	1.00 42.33	
MOTA	1337	CD	ARG	1003	27.857	32.633	11.767	1.00 42.33	6
MOTA	1338	NE	ARG	1003	28.533	32.694	13.047	1.00 42.33	7
ATOM	1339	CZ	ARG	1003	29.508	33.544	13.336	1.00 42.33	6
ATOM	1340	NH1	ARG	1003	29.932	34.417	12.428	1.00 42.33	7
ATOM	1341 .	NH2	ARG	1003	30.067	33.516	14.535	1.00 42.33	7
MOTA	1342	C	ARG	1003	27.737	30.626	7.370	1.00 40.35	6
ATOM	1343	0	ARG	1003	27.262	29.606	7.865	1.00 40.35	8
MOTA	1344	N	TRP	1004	27.495	31.011	6.121	1.00 25.04	7
ATOM	1345	CA	TRP	1004	26.632	30.250	5.221	1.00 26.04	6
ATOM	1346	CB	TRP	1004	25.459	31.141	4.768	1.00 50.68	6
ATOM	1347	CG	TRP	1004	24.332	31.279	5.776	1.00 50.68	6
ATOM	1348	CD2	TRP	1004	24.261	32.186	6.885	1.00 50.68	6
ATOM	1349	CE2	TRP	1004	23.066	31.901	7.585	1.00 50.68	6
ATOM	1350	CE3	TRP	1004	25.093	33.208	7.363	1.00 50.68	6
MOTA	1351	CD1		1004	23.207	30.513	5.843	1.00 50.68	6
ATOM	1351	NEI		1004	22.445	30.880	6.924	1.00 50.68	7
ATOM	1353	CZ2	TRP	1004	22.681	32.601	8.737	1.00 50.68	6
		CZ3		1004	24.704	33.905	8.515	1.00 50.68	6
ATOM	1354	CH2		1004	23.510	33.594	9.186	1.00 50.68	6
ATOM	1355					29.747	4.006	1.00 26.04	6
MOTA	1356	C	TRP	1004	27.409	23.141	÷.000	2.00 20.01	-

									_
MOTA	1357	0	TRP	1004	27.003		3.356	1.00 26.04	8
ATOM	1358	N	MET	1005	28.539	30.382	3.706	1.00 37.80	7
ATOM	1359	CA	MET	1005	29.329	30.009	2.543	1.00 37.80	6
MOTA	1360	CB	MET	1005	30.502	30.949	2.412	1.00 40.16	6
ATOM	1361	CG	MET	1005	30.063	32.299	1.973	1.00 40.16	6
ATOM	1362	SD	MET	1005	31.319	33.493	2.212	1.00 40.16	16
ATOM	1363	CE	MET	1005	32.621	. 32.780	1.246	1.00 40.16	6
ATOM	1364	C	MET	1005	29.827	28.584	2.473	1.00 37.80	6
ATOM	1365	0	MET	1005	30.268	28.011	3.465	1.00 37.80	8
ATOM	1366	N	ALA	1006	29.753		1.283	1.00 45.98	7
ATOM	1367	CA	ALA	1006	30.230		1.092	1.00 45.98	6
	1368	CB	ALA	1006	29.797		-0.284	1.00 10.86	6
ATOM			ALA	1006	31.764		1.196	1.00 45.98	6
ATOM	1369	C		1006	32.322		1.151	1.00 45.98	8
MOTA	1370	0	ALA				1.326	1.00 44.58	7
MOTA	1371	N	ILE	1007	32.448		1.446	1.00 44.58	6
MOTA	1372	CA	ILE	1007	33.909			1.00 25.13	6
ATOM	1373	CB	ILE	1007	34.528		1.753		6
ATOM	1374	CG2	ILE	1007	34.415		3.224	1.00 25.13	
MOTA	1375	CG1	ILE	1007	33.880		0.886	1.00 25.13	6
MOTA	1376	CD1	ILE	1007	34.418		-0.571	1.00 25.13	6
MOTA	1377	C	ILE	1007	34.619		0.234	1.00 44.58	6
ATOM	1378	0	ILE	1007	35.585	26.988	0.379	1.00 44.58	8
MOTA	1379	N	GLU	1008	34.137	25.915	-0.957	1.00 31.07	7
ATOM	1380	CA	GLU	1008	34.743	26.402	-2.188	1.00 31.07	6
ATOM	1381	CB	GLU	1008	34.089	25.710	-3.378	1.00 43.81	6
ATOM	1382	CG	GLU	1008	32.595	25.941	-3.415	1.00 43.81	6
ATOM	1383	CD	GLU	1008	31.795	24.661	-3.241	1.00 43.81	6
ATOM	1384	OE1	GLU	1008	31.967		-2.216	1.00 43.81	8
ATOM	1385	OE2		1008	30.965		-4.125	1.00 43.81	8
	1386	C	GLU	1008	34.578		-2.308	1.00 31.07	6
ATOM		0	GLU	1008	35.377		-2.967	1.00 31.07	8
ATOM	1387			1008	33.546		-1.660	1.00 30.15	7
MOTA	1388	N	SER		33.259		-1.711	1.00 30.15	6
ATOM	1389	CA	SER	1009			-1.366	1.00 23.09	6
MOTA	1390	CB	SER	1009	31.802			1.00 23.09	8
ATOM	1391	OG	SER	1009	30.984		-2.034	1.00 30.15	6
MOTA	1392	С	SER	1009	34.150		-0.743		8
MOTA	1393	0	SER	1009	34.565		-0.995	1.00 30.15	
MOTA	1394	N	LEU	1010	34.428		0.381	1.00 29.90	7
ATOM	1395	CA	LEU	1010	35.293		1.380	1.00 29.90	6
ATOM	1396	CB	LEU	1010	35.402	29.629	2.585	1.00 44.65	6
ATOM	1397	CG	LEU	1010	34.152	29.450	3.460	1.00 44.65	6
ATOM	1398	CD1	LEU	1010	34.435	28.420	4.534	1.00 44.65	6
MOTA	1399		LEU	1010	33.752	30.781	4.101	1.00 44.65	6
ATOM	1400	С	LEU	1010	36.663	30.771	0.726	1.00 29.90	6
ATOM	1401	Ō	LEU	1010	37.082		0.503	1.00 29.90	8
ATOM	1402	N	ASN	1011	37.327		0.397	1.00 34.23	7
	1403	CA	ASN	1011	38.652		-0.230	1.00 34.23	6
MOTA		CB	ASN	1011	39.109		-0.511	1.00 32.72	6
ATOM	1404				38.990		0.679	1.00 32.72	6
ATOM	1405	CG	ASN	1011			1.783	1.00 32.72	8
ATOM	1406		ASN	1011	39.433		0.450	1.00 32.72	7
MOTA	1407		ASN	1011	38.404			1.00 32.72	6
MOTA	1408	Ç	ASN	1011	38.80		-1.560	1.00 34.23	8
MOTA	1409	0	ASN	1011	39.728		-1.748		7
MOTA	1410	N	TYR	1012	37.91		-2.494	1.00 35.06	
MOTA	1411	CA	TYR	1012	38.01		-3.822	1.00 35.06	6
ATOM	1412	CB	TYR	1012	37.82		-4.845	1.00 40.77	6
ATOM	1413	CG	TYR	1012	38.70	5 28.358	-4.552	1.00 40.77	6

ATOM	1414	CD1	TYR	1012	38.157	27.093	-4.400	1.00 40.77	6
ATOM	1415	CE1	TYR	1012	38.961	25.024	-4.105	1.00 40.77	6
ATOM	1416	CD2	TYR	1012	40.077	28.531	-4.397	1.00 40.77	6
ATOM	1417	CE2	TYR	1012	40.896	27.472	-4.098	1.00 40.77	6
ATOM	1418	CZ	TYR	1012	40.336	26.208	-3.957	1.00 40.77	6
	1419	OH	TYR	1012	41.152	25.119	-3.717	1.00 40.77	8
MOTA				1012	37.161	31.787	-4.193	1.00 35.06	6
MOTA	1420	C	TYR			32.440	-5.195	1.00 35.06	8
MOTA	1421	0	TYR	1012	37.443				7
ATOM	1422	N	SER	1013	36.109	32.060	-3.433	1.00 42.36	
MOTA	1423	CA	SER	1013	35.278	33.209	-3.746	1.00 42.36	6
MOTA	1424	CB	SER	1013	36.159	34.439	-3.983	1.00 39.37	6
ATOM	1425	OG	SER	1013	37.157	34.576	-2.983	1.00 39.37	8
ATOM	1426	C	SER	1013	34.433	32.973	-4.982	1.00 42.36	6
ATOM	1427	0	SER	1013	34.291	33.865	-5.807	1.00 42.36	8
ATOM	1428	N	VAL	1014	33.890	31.772	-5.121	1.00 22.55	7
ATOM	1429	CA	VAL	1014	33.045	31.467	-6.260	1.00 22.55	6
ATOM	1430	CB	VAL	1014	33.653	30.369	-7.143	1.00 31.51	6
ATOM	1431		VAL	1014	35.048	30.791	-7.599	1.00 31.51	6
ATOM	1432		VAL	1014	33.701	29.054	-6.383	1.00 31.51	6
		C	VAL	1014	31.720	30.999	-5.712	1.00 22.55	6
ATOM	1433					30.562	-4.577	1.00 22.55	8
ATOM	1434	0	VAL	1014	31.644			1.00 26.01	7
MOTA	1435	N	TYR	1015	30.671	31.121	-6.507		
ATOM	1436	CA	TYR	1015	29.338	30.712	-6.101	1.00 26.01	6
MOTA	1437	CB	TYR	1015	28.501	31.938	-5.753	1.00 41.40	6
MOTA	1438	CG	TYR	1015	29.116	32.782	-4.672	1.00 41.40	6
MOTA	1439	CD1	TYR	1015	30.233	33.560	-4.922	1.00 41.40	6
ATOM	1440	CEl	TYR	1015	30.854	34.235	-3.904	1.00 41.40	6
ATOM	1441	CD2	TYR	1015	28.638	32.709	-3.365	1.00 41.40	6
ATOM	1442	CE2	TYR	1015	29.257	33.388	-2.330	1.00 41.40	6
ATOM	1443	CZ	TYR	1015	30.361	34.139	-2.605	1.00 41.40	6
ATOM	1444	OH	TYR	1015	30.968	34.830	-1.588	1.00 41.40	8
ATOM	1445	C	TYR	1015	28.674	29.998	-7.252	1.00 26.01	6
			TYR	1015	28.513	30.572	-8.324	1.00 26.01	8
ATOM	1446	0			28.311	28.741	-7.043	1.00 17.46	7
ATOM	1447	N	THR	1016				1.00 17.46	6
MOTA	1448	CA	THR	1016	27.610	27.971	-8.082		6
ATOM	1449	CB	THR	1016	28.317	26.625	-8.456	1.00 15.11	
MCTA	1450	OG1	THR	1016	28.649	25.909	-7.262	1.00 15.11	8
MOTA	1451	CG2	THR	1016	29.540	26.855	-9,283	1.00 15.11	6
ATOM	1452	С	THR	1016	26.257	27.590	-7.487	1.00 17.46	6
MCTA	1453	0	THR	1016	25.919	28.038	-6.408	1.00 17.46	8
ATOM	1454	N	THR	1017	25.489	26.752	-8.171	1.00 10.55	7
ATOM	1455	ÇA	THR	1017	24.229	26.325	-7.585	1.00 10.55	б
ATOM	1456	CB	THR	1017	23.346	25.602	-8.600	1.00 29.18	6
ATOM	1457	OG1		1017	22.913	26.533	-9.600	1.00 29.18	8
ATOM	1458	CG2	THR	1017	22.138	25.017	-7.906	1.00 29.18	6
				1017	24.563	25.381	-6.419	1.00 10.55	6
ATOM	1459	C	THR			25.287	-5.466	1.00 10.55	8
ATOM	1460	0	THR	1017	23.802			1.00 41.35	7
MOTA	1461	N	ASN	1018	25.740	24.743	-6.500		6
ATOM	1462	CA	ASN	1018	26.266	23.772	-5.505	1.00 41.35	
MOTA	1463	CB	ASN	1018	27.522	23.095	-6.033	1.00 49.00	6
MOTA	1464	CG	ASN	1018	27.234	22.010	-7.015	1.00 49.00	6
MOTA	1465	OD1	ASN	1018	28.100	21.630	-7.788	1.00 49.00	8
ATOM	1466	ND2	ASN	1018	26.025	21.477	-6.981	1.00 49.00	7
ATOM	1467	C	ASN	1018	26.646	24.371	-4.156	1.00 41.35	6
ATOM	1468	0	ASN	1018	26.773	23.647	-3.160	1.00 41.35	8
ATOM	1469	N	SER	1019	26.887	25.680	-4.148	1.00 46.21	7
		CA	SER	1019	27.247	26.400	-2.935	1.00 46.21	6
MOTA	1470	CA	SEK	TO T 2	21.27	20.400	,		

ATOM	1471	СВ	SER	1019	28.179	27.570	-3.247	1.00 35.31	6
ATOM	1472	OG	SER	1019	27.517	28.561	-3.996		8
ATOM	1473	C	SER	1019	25.936	26.919	-2.392	1.00 46.21	6
MOTA	1474	0	SER	1019	25.835	27.281	-1.225	1.00 46.21	8
ATOM	1475	N	ASP	1020	24.929	26.965	-3.253	1.00 42.68	7
ATOM	1476	CA	ASP	1020	23.640	27.426	-2.808	1.00 42.68	6
MOTA	1477	CB	ASP	1020	22.826	28.008	-3.951	1.00 34.86	6
MOTA	1478	CG	ASP	1020	22.962	29.508	-4.032	1.00 34.86	6
ATOM	1479	OD:	l ASP	1020	23.242	30.127	-2.972	1.00 34.86	8
ATOM	1480	OD2	2 ASP	1020	22.788	30.046	-5.149	1.00 34.86	8
MOTA	1481	C	ASP	1020	22.912	26.281	-2.171	1.00 42.68	6
ATOM	1482	0	ASP	1020	21.925	26.487	-1.480	1.00 42.68	8
MOTA	1483	N	VAL	1021	23.401	25.071	-2.398	1.00 42.68	7
ATOM	1484	CA	VAL	1021	22.751	23.944	-1.787	1.00 33.68	6
ATOM	1485	CB	VAL	1021	22.872	22.690	-2.628	1.00 33.00	6
ATOM	1486	CG1		1021	22.096	21.575	-1.962	1.00 9.47	6
ATOM	1487	CG2		1021	22.328	22.940	-4.008		
ATOM	1488	C	VAL	1021	23.403	23.746			6
ATOM	1489	0	VAL	1021	22.872	23.740	-0.444	1.00 33.68	6
ATOM	1490	N	TRP	1022	24.565	24.355	0.422	1.00 33.68	8
ATOM	1491	CA	TRP	1022	25.247		-0.268	1.00 49.04	7
ATOM	1492	CB	TRP	1022		24.284	1.011	1.00 49.04	6
ATOM	1493	CG	TRP	1022	26.732	24.600	0.868	1.00 36.23	6
ATOM	1494	CD2			27.463	24.712	2.164	1.00 36.23	6
ATOM	1495	CE2		1022	28.575	23.920	2.583	1.00 36.23	6
ATOM	1496	CE3		1022	28.985	24.411	3.836	1.00 36.23	6
ATOM	1497		TRP	1022	29.269	22.843	2.019	1.00 36.23	6
ATOM		CD1	TRP	1022	27.246	25.623	3.158	1.00 36.23	6
	1498	NE1		1022	28.155	25.452	4.165	1.00 36.23	7
ATOM	1499	CZ2	TRP	1022	30.061	23.862	4.532	1.00 36.23	6
ATOM	1500	CZ3	TRP	1022	30.338	22.300	2.710	1.00 36.23	6
ATOM	1501	CH2	TRP	1022	30.721	22.808	3.951	1.00 36.23	6
ATOM	1502	C	TRP	1022	24.558	25.391	1.777	1.00 49.04	6
ATOM	1503	0	TRP	1022	23.962	25.164	2.822	1.00 49.04	8.
ATOM	1504	N	SER	1023	24.599	26.598	1.244	1.00 20.71	7
MOTA	1505	CA	SER	1023	23.946	27.666	1.954	1.00 20.71	б
ATOM	1506	CB	SER	1023	24.032	28.977	1.181	1.00 17.98	6
ATOM	1507	OG	SER	1023	25.377	29.363	1.081	1.00 17.98	8
ATOM	1508	C	SER	1023	22.516	27.305	2.265	1.00 20.71	6
ATOM	1509	0	SER	1023	22.009	27.705	3.298	1.00 20.71	8
MOTA	1510	N	TYR	1024	21.842	26.557	1.400	1.00 27.47	7
ATOM	1511	CA	TYR	1024	20.474	26.200	1.758	1.00 27.47	6
ATOM	1512	,CB	TYR	1024	19.728	25.580	0.590	1.00 25.94	6
ATOM	1513	'CG	TYR	1024	18.447	24.902	1.003	1.00 25.94	б
ATOM	1514	CD1	TYR	1024	17.222	25.512	0.847	1.00 25.94	6
MOTA	1515	CEl	TYR	1024	16.037	24.846	1.170	1.00 25.94	6
ATOM	1516	CD2	TYR	1024	18.465	23.611	1.506	1.00 25.94	6
ATOM	1517	CE2	TYR	1024	17.288	22.954	1.833	1.00 25.94	6
ATOM	1518	CZ	TYR	1024	16.089	23.579	1.656	1.00 25.94	6
ATOM	1519	OH	TYR	1024	14.949	22.909	1.953	1.00 25.94	8
ATOM	1520	C	TYR	1024	20.502	25.233	2.942	1.00 23.34	6
ATOM	1521	0	TYR	1024	19.712			1.00 27.47	
ATOM	1522	N	GLY	1024		25.368	3.873		8
ATOM	1523	CA	GLY	1025	21.419	24.273	2.917	1.00 24.43	7
ATOM	1524	C	GLY		21.505	23.344	4.025	1.00 24.43	6
ATOM	1525			1025	21.593	24.073	5.356	1.00 24.43	6
		O	GLY	1025	21.032	23.619	6.356	1.00 24.43	8
ATOM	1526	N	VAL	1026	22.307	25.195	5.384	1.00 31.88	7
MOTA	1527	CA	VAL	1026	22.417	25.947	6.632	1.00 31.88	6

ATOM	1528	СВ	VAL	1026	23.566	26.979	6.609	1.00 14.56	6
MOTA	1529	CG1		1026	23.783	27.551	8.015	1.00 14.56	6
ATOM	1530	CG2	VAL	1026	24.835	26.301	6.132	1.00 14.56	6
ATOM	1531	С	VAL	1026	21.077	26.636	6.908	1.00 31.88	6
ATOM	1532	0	VAL	1026	20.691	26.833	8.062	1.00 31.88	8
MOTA	1533	N	LEU	1027	20.348	26.978	5.855	1.00 36.84	7
ATOM	1534	CA	LEU	1027	19.063	27.591	6.078	1.00 36.84	6
ATOM	1535	CB	LEU	1027	18.470	28.110	4.777	1.00 5.00	6
ATOM	1536	CG	LEU	1027	17.030	28.620	4.806	1.00 5.00	6
MOTA	1537	CD1	LEU	1027	16.683	29.318	6.095	1.00 5.00	6
MOTA	1538	CD2	LEU	1027	16.893	29.549	3.640	1.00 5.00	6
MOTA	1539	C	LEU	1027	18.149	26.556	6.711	1.00 36.84	6
MOTA	1540	0	LEU	1027	17.383	26.885	7.606	1.00 36.84	8
MOTA	1541	N	LEU	1028	18.234	25.304	6.272	1.00 19.77	7
MOTA	1542	CA	LEU	1028	17.390	24.264	6.848	1.00 19.77	6
ATOM	1543	CB	LEU	1028	17.645	22.931	6.147	1.00 24.80	6
ATOM	1544	CG	LEU	1028	16.802	21.696	6.487	1.00 24.80	6
ATOM	1545	CD1	LEU	1028	15.298	21.976	6.507	1.00 24.80	6
MOTA	1546	CD2	LEU	1028	17.117	20.681	5.417	1.00 24.80	6
ATOM	1547	C	LEU	1028	17.681	24.145	8.339	1.00 19.77	6
ATOM	1548	0	LEU	1028	16.779	23.912	9.136	1.00 19.77	8
MOTA	1549	N	TRP	1029	18.944	24.309	8.714	1.00 26.73	7
ATOM	1550	CA	TRP	1029	19.318	24.241	10.114	1.00 26.73	6
ATOM	1551	CB	TRP	1029	20.836	24.229	10.257	1.00 36.84	6
ATCM	1552	CG	TRP	1029	21.363	24.082	11.678	1.00 36.84	6
ATOM	1553	CD2	TRP	1029	21.634	25.145	12.611	1.00 36.84	6
ATOM	1554	CE2	TRP	1029	22.215	24.556	13.757	1.00 36.84	6
MOTA	1555	CE3	TRP	1029	21.438	26.536	12.588	1.00 36.84	6
ATOM	1556	CD1	TRP	1029	21.774	22.926	12.292	1.00 36.84	6
ATOM	1557	NEl	TRP	1029	22.292	23.202	13.539	1.00 36.84	7
ATOM	1558	CZ2	TRP	1029	22.613	25.310	14.860	1.00 36.84	6
ATOM	1559	CZ3	TRP	1029	21.830	27.283	13.682	1.00 36.84	6
ATOM	1560	CH2	TRP	1029	22.409	26.670	14.803	1.00 36.84	6
ATOM	1561	С	TRP	1029	18.736	25.435	10.898	1.00 26.73	6
ATOM	1562	0	TRP	1029	18.498	25.314	12.089	1.00 26.73	8
ATOM	1563	N	GLU	1030	18.520	26.590	10.266	1.00 28.62	7
MCTA	1564	CA	GLU	1030	17.958	27.734	10.996	1.00 28.62	6
ATOM	1565	CB	GLU	1030	18.082	29.020	10.177	1.00 33.13	6
MOTA	1566	CG	GLU	1030	19.486	29.535	10.077	1.00 33.13	6
ATOM	1567	CD	GLU	1030	19.635	30.718	9.135	1.00 33.13	6
ATOM	1568	OE1		1030	19.628	30.498	7.909	1.00 33.13	8
ATOM	1569		GLU	1030	19.756	31.865	9.625	1.00 33.13	8
ATOM	1570	Ċ	GLU	1030	16.494	27.467	11.333	1.00 28.62	6
ATOM	1571	0	GLU	1030	16.056	27.619	12.470	1.00 28.62	8
ATOM	1572	N	ILE	1031	15.746	27.065	10.314	1.00 23.86	7
ATOM	1573	CA	ILE	1031	14.328	26.733	10.413	1.00 23.86	6
ATOM	1574	CB	ILE	1031	13.845	26.094	9.083	1.00 5.00	6
ATOM	1575	CG2		1031	12.626	25.263	9.308	1.00 5.00	6
ATOM	1576	CG1	ILE	1031	13.660	27.181	8.029	1.00 5.00	6
ATOM	1577	CD1	ILE	1031	13.157	26.703	6.709	1.00 5.00	6
ATOM	1578	C	ILE	1031	14.085	25.760	11.544	1.00 23.86	6
ATOM	1579	0	ILE	1031	13.202	25.760	12.357	1.00 23.86	8
		N	VAL	1031	14.894	24.723	11.595	1.00 16.66	7
MOTA	1580							1.00 16.66	6
ATOM	1581	CA	VAL VAL	1032	14.745	23.717	12.611 12.184	1.00 18.88	6
ATOM	1582	CB		1032	15.538	22.452		1.00 12.88	6
ATOM	1583	CG1		1032	15.873	21.594	13.367		6
ATOM	1584	CG2	٧AL	1032	14.713	21.662	11.163	1.00 12.88	U

										_
ATOM	1585	С	VAL	1032	15.155	24.252	13.977	1.00	16.66	6
MOTA	1586	0	LAV	1032	14.456	24.032	14.952	1.00	16.66	8
MOTA	1587	N	SER	1033	16.258	24.986	14.058	1.00	33.94	7
ATOM	1583	CA	SER	1033	16.732	25.551	15.331	1.00	33.94	6
ATOM	1589	CB	SER	1033	18.173	25.982	15.197		27.55	6
				1033	18.203	27.172	14.452		27.55	8
ATOM	1590	og	SER						33.94	6
MOTA	1591	С	SER	1033	15.937	26.791	15.793			
ATOM	1592	0	SER	1033	16.275	27.415	16.801		33.94	8
MOTA	1593	N	LEU	1034	14.913	27.165	15.035		25.63	7
MOTA	1594	CA	LEU	1034	14.075	28.313	15.353	1.00	25.63	6
ATOM	1595	CB	LEU	1034	13.382	28.107	16.707	1.00	16.09	6
ATOM	1596	CG	LEU	1034	12.545	26.834	15.882	1.00	16.09	6
ATOM	1597		LEU	1034	11.931	26.831	18.286	1.00	16.09	6
ATOM	1598	CD2	LEU	1034	11.456	26.758	15.839		16.09	6
		C	LEU	1034	14.777	29.676	15.328		25.63	6
ATOM	1599								25.63	8
MOTA	1600	0	LEU	1034	14.641	30.476	16.254			7
ATOM	1601	N	GLY	1035	15.519	29.927	14.256		32.06	
ATOM	1602	CA	GLY	1035	16.185	31.202	14.092		32.06	6
ATOM	1603	C	\mathtt{GLY}	1035	17.458	31.404	14.866	1.00	32.06	6
ATOM	1604	0	GLY	1035	17.832	32.537	15.149	1.00	32.06	8
ATOM	1605	N	GLY	1036	18.124	30.316	15.224	1.00	12.96	7
ATOM	1606	CA	GLY	1036	19.371	30.430	15.957	1.00	12.96	6
ATOM	1607	C	GLY	1036	20.486	30.704	14.974		12.96	6
				1036	20.355	30.393	13.789		12.96	8
MOTA	1608	0	GLY				15.457		38.43	7
ATOM	1609	N	THR	1037	21.572	31.293				6
ATOM	1610	CA	THR	1037	22.712	31.608	14.609	1.00		
ATOM	1611	CB	THR	1037	23.593	32.723	15.266		32.45	6
ATOM	1612	OG1	THR	1037	22.813	33.907	15.442	1.00	32.45	8
ATOM	1613	CG2	THR	1037	24.754	33.076	14.387	1.00	32.45	6
ATOM	1614	С	THR	1037	23.519	30.323	14.418	1.00	38.43	6
ATOM	1615	0	THR	1037	23.687	29.555	15.359	1.00	38.43	8
	1616	N	PRO	1038	24.003	30.054	13.193	1.00	51.13	7
ATOM					23.734	30.837	11.973	1.00		6
ATOM	1617	CD	PRO	1038			12.863		51.13	6
MOTA	1618	CA	PRO	1038	24.791	28.859		1.00		6
MOTA	1619	CB	PRO	1038	24.677	28.776	11.354			
MOTA	1620	CG	PRO	1038	24.691	30.218	10.977	1.00		6
ATOM	1621	С	PRO	1038	26.233	28.968	13.308		51.13	6
ATOM	1622	0	PRO	1038	26.873	30.002	13.113	1.00	51.13	8
ATOM	1623	N	TYR	1039	26.753	27.895	13.886	1.00	44.91	7
ATOM	1624	CA	TYR	1039	28.124	27.909	14.349	1.00	44.91	6
ATOM	1625	CB	TYR	1039	29.082	28.341	13.221	1.00	38.97	6
		,CG	TYR	1039	28.980	27.544		1.00	38.97	6
MOTA						28.161	10.739		38.97	6
ATOM	1627	CD1		1039	28.593				38.97	6
MOTA	1628	CEl		1039	28.487	27.434	9.545			6
ATOM	1629	CD2	TYR	1039	29.263	26.185	11.907		38.97	
MOTA	1630	CE2	TYR	1039	29.165	25.455	10.730		38.97	6
MOTA	1631	CZ	TYR	1039	28.773	26.082	9.553		38.97	6
ATOM	1632	OH	TYR	1039	28.647	25.353	8.396	1.00	38.97	8
ATOM	1633	С	TYR	1039	28.176	28.932	15.479	1.00	44.91	6
		0	TYR	1039	29.152	29.674	15.601	1.00	44.91	8
ATOM	1634			1040	27.120	28.989	16.293		52.33	7
ATOM	1635	N	CYS						52.33	6
MOTA	1636	CA	CYS	1040	27.093	29.933	17.411		51.31	6
MOTA	1637	CB	CYS	1040	25.700	30.015	18.046			
ATOM	1638	SG	CYS	1040	25.484	31.409	19.213		51.31	16
MOTA	1639	C	CYS	1040	28.094	29.416	18.424		52.33	6
ATOM	1640	0	CYS	1040	28.113	28.224	18.729		52.33	8
ATOM	1641	N	GLY	1041	28.930	30.315	18.928	1.00	33.04	7
				·· -						

ATOM	1642	CA	GLY	1041	29.930	29.917	19.895	1.00	33.04	6
ATOM	1643	С	GLY	1041	31.293	29.745	19.257	1.00	33.04	6
MCTA	1644	ō	GLY	1041	32.207	29.176	19.855		33.04	8
ATOM	1645	N	MET	1042	31.435	30.206	18.024		54.51	7
ATOM	1646	CA	MET	1042	32.718	30.129	17.350		54.51	6
										6
ATOM	1647	CB	MET	1042	32.703	29.085	16.241		40.53	
MOTA	1648	CG	MET	1042	33.032	27.691	16.710		40.53	6
ATOM	1649	SD	MET	1042	32.920	26.501	15.349		40.53	16
MOTA	1650	CE	MET	1042	31.539	25.362	15.966		40.53	6
MOTA	1651	C	MET	1042	33.029	31.492	1 <i>6</i> .785	1.00	54.51	6
ATOM	1652	0	MET	1042	32.195	32.395	16.804	1.00	54.51	8
ATOM	1653	N	THR	1043	34.241	31.633	16.286	1.00	54.86	7
ATOM	1654	CA	THR	1043	34.677	32.894	15.726	1.00	54.86	6
MOTA	1655	CB	THR	1043	36.055	33.252	16.229	1.00	82.76	6
ATOM	1656	OG1	THR	1043	36.987	32.269	15.763	1.00	82.76	8
ATOM	1657	CG2	THR	1043	36.069	33.282	17.735		82.76	6
ATOM	1658	C	THR	1043	34.780	32.796	14.227	1.00		6
ATOM	1659	0	THR	1043	34.695	31.710	13.659	1.00		8
										7
MOTA	1660	N	CYS	1044	35.002	33.943	13.599	1.00		
MOTA	1661	CA	CYS	1044	35.142	34.000	12.158	1.00		6
ATOM	1662	CB	CYS	1044	35.205	35.453	11.692	1.00		6
ATOM	1663	SG	CYS	1044	33.676	36.379	11.856	1.00		16
MOTA	1664	С	CYS	1044 .	36.396	33.272	11.681	1.00		6
MOTA	1665	0	CYS	1044	36.622	33.174	10.483	1.00	95.17	8
ATOM	1666	N	ALA	1045	37.215	32.773	12.603	1.00	38.28	7
ATOM	1667	CA	ALA	1045	38.428	32.079	12.197	1.00	38.28	6
ATOM	1668	CB	ALA	1045	39.618	32.633	12.941	1.00	50.33	6
ATOM	1669	С	ALA	1045	38.348	30.571	12.387	1.00	38.28	6
ATOM	1670	0	ALA	1045	38.780	29.817	11.517	1.00		8
ATOM	1671	N	GLU	1046	37.822	30.131	13.526	1.00		7
ATOM	1672	CA	GLU	1046	37.712	28.702	13.787	1.00		6
								1.00		6
ATOM	1673	CB	GLU	1046	36.911	28.460	15.068			6
MOTA	1674	CG	GLU	1046	37.622	28.995	16.300	1.00		
ATOM	1675	CD	GLU	1046	36.997	28.556	17.607	1.00	•	6
MOTA	1676			1046	36.872	27.334	17.835	1.00		8
ATOM	1677	OE2	GLU	1046	36.635	29.442	18.408	1.00		8
MOTA	1678	C	GLU	1046	37.051	28.027	12.591	1.00	39.84	6
ATOM	1679	0	GLÜ	1046	37.370	26.884	12.245	1.00	39.84	8
MOTA	1680	N	LEU	1047	36.148	28.772	11.953	1.00	55.18	7
ATOM	1681	CA	LEU	1047	35.412	28.312	10.771	1.00	55.18	6
ATOM	1682	СВ	LEU	1047	34.315	29.319	10.424	1.00	58.88	6
ATOM	1683	CG	LEU	1047	33.325	29.563	11.565	1.00	58.88	6
MOTA	1684	CĎ1		1047	32.333	30.619	11.148	1.00		6
ATOM	1685	CD2		1047	32.610	28.260	11.906	1.00		6
							9.548	1.00		6
ATOM	1686	C	LEU	1047	36.307	28.092		1.00		8
ATOM	1687	0	LEU	1047	36.106	27.157	8.786			7
ATOM	1688	N	TYR	1048	37.283	28.967	9.352	1.00		
ATOM	1689	CA	TYR	1048	38.203	28.820	8.234	1.00		6
ATOM	1690	CB	TYR	1048	39.033	30.097	8.078	1.00		6
MOTA	1691	CG	TYR	1048	38.422	31.088	7.123		62.53	6
ATOM	1692	CD1	TYR	1048	37.554	32.092	7.559		62.53	6
MOTA	1693	CE1	TYR	1048	36.956	32.963	6.644	1.00	62.53	6
ATOM	1694	CD2	TYR	1048	38.678	30.981	5.765		62.53	6
ATOM	1695	CE2	TYR	1048	38.096	31.829	4.851		62.53	6
ATOM	1696	CZ	TYR	1048	37.233	32.820	5.280		62.53	6
		OH			36.649	33.642	4.333		62.53	8
ATOM	1697		TYR	1048					49.08	6
MOTA	1698	C	TYR	1048	39.112	27.618	8.525	1.00	-5.00	•

ATOM	1699	0	TYR	1048	39.661	27.008	7.603	1.00 49.08	8
MOTA	1700	N	GLU	1049	39.224	27.293	9.817	1.00 50.97	7
ATOM	1701	CA	GLU	1049	40.047	26.196	10.341	1.00 50.97	6
ATOM	1702	CB	GLU	1049	40.532	26.543	11.761	1.00 95.40	6
ATOM	1703	CG	GLU	1049	41.455	25.483	12.408	1.00 95.40	6
ATOM	1704	CD	GLU	1049 -	41.583	25.610	13.940	1.00 95.40	6
MOTA	1705	OE1	GLU	1049	41.872	26.717	14.445	1.00 95.40	8
ATOM	1706	OE2	GLU	1049	41.397	24.589	14.641	1.00 95.40	8
MOTA	1707	C	GLU	1049	39.347	24.829	10.395	1.00 50.97	6
MOTA	1708	0	GLU	1049	39.581	23.962	9.543	1.00 50.97	8
ATOM	1709	N	LYS	1050	38.499	24.659	11.416	1.00 80.24	7
ATOM	1710	CA	LYS	1050	37.750	23.420	11.683	1.00 80.24	б
ATOM	1711	CB	LYS	1050	37.217	23.446	13.105	1.00 32.58	6
ATOM	1712	C	LYS	1050	36.603	23.121	10.729	1.00 80.24	6
ATOM	1713	0	LYS	1050	35.910	22.112	10.874	1.00 80.24	8
ATOM	1714	N	LEU	1051	36.394	23.993	9.757	1.00 50.22	7
ATOM	1715	CA	LEU	1051	35.323	23.769	8.810	1.00 50.22	6
ATOM	1716	CB	LEU	1051	34.627	25.081	8.449	1.00 21.77	6
ATOM	1717	CG	LEU	1051	33.258	24.954	7.780	1.00 21.77	6
ATOM	1718	CD1	LEU	1051	32.248	24.632	8.834	1.00 21.77	6
MOTA	1719	CD2	LEU	1051	32.900	26.226	7.065	1.00 21.77	6
ATOM	1720	C	LEU	1051	35.827	23.121	7.540	1.00 50.22	6
ATOM	1721	0	LEU	1051	35.308	22.098	7.123	1.00 50.22	8
ATOM	1722	N	PRO	1052	36.860	23.692	6.913	1.00 73.14	7
ATOM	1723	CD	PRO	1052	37.819	24.695	7.400	1.00 57.36	6
ATOM	1724	CA	PRO	1052	37.372	23.122	5.675	1.00 73.14	6
ATOM	1725	CB	PRO	1052	38.669	23.898	5.460	1.00 57.36	6
ATOM	1726	CG .	PRO	1052	38.368	25.214	6.097	1.00 57.36	6
ATOM	1727	C	PRO	1052	37.600	21.638	5.814	1.00 73.14	6
ATOM	1728	0	PRO	1052	36.747	20.823	5.474	1.00 73.14	8
ATOM	1729	N	GLN	1053	38.756	21.308	6.359	1.00 77.10	7
ATOM	1730	CA	GLN	1053	39.139	19.932	6.542	1.00 77.10	6
ATOM	1731	CB	GLN	1053	40.574	19.886	7.003	1.00100.00	6
ATOM	1732	C	GLN	1053	38.256	19.137	7.504	1.00 77.10	6
ATOM	1733	0	GLN	1053	38.279	17.904	7.479	1.00 77.10	8
ATOM	1734	N	GLY	1054	37.475	19.815	8.341	1.00 78.88	7
ATOM	1735	CA	GLY	1054	36.658	19.075	9.293	1.00 78.88	6
ATOM	1736	C	GLY	1054	35.160	18.960	9.074	1.00 78.88	6
ATOM	1737	0.	GLY	1054	34.644	19.099	7.965	1.00 78.88	8
ATOM	1738	N .	TYR	1054	34.460	18.683	10.164	1.00 /8.88	7
ATOM		CA	TYR	1055				1.00 61.80	6
	1739		TYR		33.018 32.547	18.525	10.146		6
ATOM	1740	CB CG		1055 1055		17.902	11.458	1.00100.00	6
ATOM	1741		TYR		32.642	18.897	12.598	1.00100.00	6
ATOM	1742		TYR	1055	31.499	19.464	13.161	1.00100.00	
ATOM	1743	CEL	TYR	1055	31.592	20.444	14.144	1.00100.00	6
ATOM	1744	CD2	TYR	1055	33.885	19.337	13.057	1.00100.00	6
ATOM	1745	CE2	TYR	1055	33.985	20.316	14.039	1.00100.00	6
ATOM	1746	CZ	TYR	1055	32.835	20.860	14.571	1.00100.00	6
MOTA	1747	OH	TYR	1055	32.928	21.827	15.531	1.00100.00	8
MOTA	1748	С	TYR	1055	32.344	19.891	10.001	1.00 61.80	6
ATOM	1749	0	TYR	1055	32.982	20.912	9.728	1.00 61.80	8
MOTA	1750	N	ARG	1056	31.038	19.885	10.231	1.00 78.80	7
MOTA	1751	CA	ARG	1056	30.216	21.079	10.155	1.00 78.80	6
MOTA	1752	CB	ARG	1056	29.674	21.216	8.729	1.00 56.27	6
MOTA	1753	CG	ARG	1056	29.456	19.890	8.001	1.00 56.27	6
MOTA	1754	CD	ARG	1056	29.992	19.943	6.563	1.00 56.27	6
ATOM	1755	NE	ARG	1056	31.444	19.832	6.494	1.00 56.27	7

ATOM 1756 CZ APG 1056 32 115 19 413 5 425 1 00

7 070 34	2 7 F C	0.7	700	1056						_
ATOM	1756	CZ	ARG	1056	32.115	19.413	5.425	1.00 5		6
ATOM	1757		ARG	1056	31.468	19.062	4.323	1.00 5		7
ATOM	1758		ARG	1056	33.441	19.327	5.464	1.00 5	6.27	7
MOTA	1759	С	ARG	1056	29.074	21.074	11.192	1.00 7	8.80	6
ATOM	1760	0	ARG	1056	29.031	20.212	12.068	1.00 7	8.80	8
ATOM	1761	N	LEU	1057	28.149	22.030	11.081	1.00 5	2.45	7
ATOM	1762	CA	LEU	1057	27.019	22.181	12.016	1.00 5	2.45	6
ATOM	1763	CB	LEU	1057	25.915	23.018	11.375	1.00 3	7.29	6
ATOM	1764	CG	LEU	1057	26.218	24.496	11.647	1.00 3	7.29	6
ATOM	1765	CD1	LEU	1057	25.208	25.439	10.966	1.00 3		6
ATOM	1766	CD2	LEU	1057	26.201	24.676	13.134	1.00 31		6
ATOM	1767	C	LEU	1057	26.429	20.921	12.635	1.00 52		6
ATOM	1768	0	LEU	1057	26.147	19.948	11.957	1.00 52		8
ATOM	1769	N	GLU	1058	 26.264	20.978	13.955	1.00 65		7
ATOM	1770	CA	GLU	1058						6
					25.730	19.856	14.739	1.00 65		
ATOM	1771	CB	GLU	1058	26.251	19.940	16.182	1.00 73		6
ATOM	1772	CG	GLU	1058	25.940	21.232	16.943	1.00 73		6
ATOM	1773	CD	GLU	1058	26.617	22.490	16.375		3.19	6
ATOM	1774		GLU	1058	27.625	22.354	15.641		1.19	8
ATOM	1775	OE2	GLU	1058	26.158	23.611	16.679	1.00 73	1.19	8
ATOM	1776	C	GLU	1058	24.207	19.746	14.738	1.00 65	.26	6
ATOM	1777	0	GĿU	1058	23.497	20.746	14.708	1.00 65	.26	8
ATOM	1778	N	LYS	1059	23.721	18.509	14.777	1.00 77	.52	7
ATOM	1779	CA	LYS	1059	22.282	18.230	14.756	1.00 77	.52	6
ATOM	1780	CB	LYS	1059	22.021	16.720	14.580	1.00 63	.67	6
ATOM	1781	CG	LYS	1059	20.563	16.341	14.799	1.00 63	.67	6
ATOM	1782	CD	LYS	1059	20.206	15.034	14.104	1.00 63		6
ATOM	1783	CE	LYS	1059	20.288	13.847	15.043	1.00 63		6
ATOM	1784	NZ	LYS	1059	19.240	13.976	16.098	1.00 63		7
ATOM	1785	C	LYS	1059	21.507	18.697	15.978	1.00 77		6
ATOM	1786	0	LYS	1059	21.765	18.261	17.093		.52	8
ATOM	1787	N	PRO	1060	20.530	19.587	15.780	1.00 //		7
ATOM	1788	CD	PRO	1060						6
					20.131	20.220	14.513	1.00 37		
ATOM	1789	CA	PRO	1060	19.725	20.087	16.894	1.00 65		6
ATOM	1790	CB	PRO	1060	18.724	21.016	16.219		.22	6
ATOM	1791	CG	PRO	1060	19.416	21.473	14.984		.22	6
ATOM	1792	С	PRO	1060	19.030	18.898	17.567	1.00 65		6
ATOM	1793	0	PRO	1060	18.860	17.840	16.956	1.00 65		8
MOTA	1794	N	LEU	1061	18.637	19.074	18.820		.51	7
ATOM	1795	CA	LEU	1061	17.962	18.017	19.564	1.00 79	.51	6
ATOM	1796	CB	LEU	1061	17.893	18.413	21.044	1.00 82	.15	6
ATOM	1797	CG	LEU	1061	17.476	19.851	21.443	1.00 82	.15	6
ATOM	1798	CD1	LEU	1061	18.413	20.859	20.777	1.00 82	.15	6
ATOM	1799	CD2	LEU	1061	16.033	20.116	21.048	1.00 82	.15	6
ATOM	1800	C	LEU	1061	16.562	17.680	19.047	1.00 79	.51	6
ATOM	1801	0	LEU	1061	16.187	16.513	19.026	1.00 79	.51	8
ATOM	1802	N	ASN	1062	15.802	18.696	18.631	1.00 43	. 98	7
ATOM	1803	CA	ASN	1062	14.437	18.512	18.124	1.00 43		6
ATOM	1804	CB	ASN	1062	13.689	19.843	18.124	1.00 26		6
ATOM	1805	CG	ASN	1062	14.462	20.938	17.404	1.00 26		6
ATOM	1806	OD1		1062	15.554	21.327		1.00 26		8
MOTA							17.834	1.00 26		7
	1807	ND2		1062	13.908	21.430	16.294			6
ATOM	1808	C	ASN	1062	14.459	17.989	16.718	1.00 43		
ATOM	1809	0	ASN	1062	13.422	17.665	16.156	1.00 43		8
ATOM	1810	N	CYS	1063	15.646	17.914	16.143	1.00 48		7
ATOM	1811	CA	CYS	1063	15.767	17.460	14.769	1.00 48		6
ATOM	1812	CB	CYS	1063	16.914	18.199	14.103	1.00 49	.76	6

ATOM	1813	SG	CYS	1063		16.932	17.981	12.363	1.00 49.76	16
MOTA	1814	С	CYS	1063		15.943	15.948	14.559	1.00 48.23	6
ATOM	1815	0	CYS	1063		16.912	15.361	15.039	1.00 48.23	8
ATOM	1816	N	ASP	1064		15.001	15.338	13.834	1.00 41.84	7
ATOM	1817	CA	ASP	1064		15.029	13.907	13.522	1.00 41.84	6
MOTA	1818	CB	ASP	1064		13.788	13.487	12.715	1.00 55.35	6
	1819	CG	ASP	1064					1.00 55.35	6
MOTA						13.829	12.012	12.290		
MOTA	1820		ASP	1064		13.977	11.154	13.175	1.00 55.35	8
ATOM	1821	OD2		1064		13.712	11.710	11.086	1.00 55.35	8
ATOM	1822	C	ASP	1064		16.273	13.599	12.702	1.00 41.84	6
MOTA	1823	0	ASP	1064		16.918	14.521	12.181	1.00 41.84	8
ATOM	1824	N	ASP	1065		16.602	12.309	12.576	1.00 68.56	7
ATOM	1825	CA	ASP	1065		17.789	11.871	11.825	1.00 68.56	6
ATOM	1826	CB	ASP	1065		18.094	10.391	12.086	1.00100.00	6
ATOM	1827	CG	ASP	1065		18.357	10.088	13.549	1.00100.00	6
ATOM	1828		ASP	1065		17.400	10.124	14.341	1.00100.00	8
									1.00100.00	8
ATOM	1829	OD2	ASP	1065		19.524	9.820	13.894		
ATOM	1830	C	ASP	1065		17.654	12.072	10.321	1.00 68.56	6
MOTA	1831	0	ASP	1065		18.627	12.404	9.644	1.00 68.56	8
ATOM	1832	N	GLU	1066		16.457	11.850	9.797	1.00 54.29	7
MOTA	1833	CA	GLU	1066		16.247	12.025	8.378	1.00 54.29	6
ATOM	1834	CB	GLU	1066		14.843	11.583	8.001	1.00 91.86	6
ATOM	1835	CG	GLU	1066		14.550	10.152	8.383	1.00 91.86	6
ATOM	1836	CD	GLU	1066	•	13.252	9.651	7.787	1.00 91.86	6
ATOM	1837	OE1	GLU	1066		12.729	8.615	8.258	1.00 91.86	8
ATOM	1838	OE2	GLU	1066		12.755	10.296	6.840	1.00 91.86	8
ATOM	1839	C	GLU	1066		16.481	13.479	7.989	1.00 54.29	6
									1.00 54.29	8
ATOM	1840	0	GLU	1066		17.223	13.758	7.048		
ATOM	1841	N.	VAL	1067		15.878	14.408	8.727	1.00 46.62	7
MOTA	1842	CA	LAV	1067		16.032	15.836	8.426	1.00 46.62	6
ATOM	1843	CB	VAL	1067		15.277	16.712	9.430	1.00 20.69	6
MOTA	1844	CG1	VAL	1067		15.286	18.154	8.957	1.00 20.69	6
MOTA	1845	CG2	VAL	1067		13.879	16.208	9.595	1.00 20.69	6
ATOM	1846	C	VAL	1067		17.484	16.314	8.400	1.00 46.62	6
MOTA	1847	0	VAL	1067		17.892	17.076	7.526	1.00 46.62	8
ATOM	1848	N	TYR	1068		18.261	15.858	9.367	1.00 49.64	7
ATOM	1849	CA	TYR	1068		19.654	16.240	9.459	1.00 49.64	6
ATOM	1850	CB	TYR	1068		20.195	15.811	10.813	1.00 42.96	6
		CG	TYR	1068		21.604	16.239	11.074	1.00 42.96	6
ATOM	1851								1.00 42.96	6
ATOM	1852	CD1		1068		21.947	17.594	11.093		
MOTA	1853	CE1	TYR	1068		23.236	18.006	11.387	1.00 42.96	6
ATOM	1854		TYR	1068		22.593	15.301	11.348	1.00 42.96	6
MOTA	1855	CE2	TYR	1068		23.882	15.701	11.640	1.00 42.96	6
ATOM	1856	CZ	TYR	1068		24.198	17.055	11.662	1.00 42.96	6
ATOM	1857	OH	TYR	1068		25.470	17.451	11.985	1.00 42.96	8
MOTA	1858	С	TYR	1068		20.424	15.557	8.338	1.00 49.64	б
ATOM	1859	0	TYR	1068		21.239	16.176	7.663	1.00 49.64	8
ATOM	1860	N	ASP	1069		20.148	14.275	8.144	1.00 54.25	7
ATOM	1861	CA	ASP	1069		20.808	13.495	7.112	1.00 54.25	6
									1.00100.00	6
ATOM	1862	CB	ASP	1069		20.056	12.188	6.905		
ATOM	1863	CG	ASP	1069		20.812	11.231	6.043	1.00100.00	6
MOTA	1864	OD1		1069		21.225	11.635	4.937	1.00100.00	8
MOTA	1865	OD2	ASP	1069		20.986	10.076	6.479	1.00100.00	8
MOTA	1866	C	ASP	1069		20.815	14.279	5.803	1.00 54.25	6
ATOM	1867	0	ASP	1069		21.779	14.247	5.037	1.00 54.25	8
ATOM	1868	N	LEU	1070		19.697	14.956	5.562	1.00 40.31	7
ATOM	1869	CA	LEU	1070		19.496	15.777	4.371	1.00 40.31	6
				_3,0				- -		

MOTA	1870	CB	LEU	1070	18.009	16.075	4.195	1.00	25.05	6
ATOM	1871	CG	LEU	1070	17.581	16.966	3.048	1.00	25.05	6
MOTA	1872	CD1	LEU	1070	17.865	16.291	1.720	1.00	25.05	6
MOTA	1873	CD2	LEU	1070	16.114	17.219	3.219	1.00	25.05	6
ATOM	1874	С	LEU	1070	20.290	17.079	4.447	1.00	40.31	6
ATOM	1875	0	LEU	1070	20.561	17.688	3.423	1.00	40.31	8
ATOM	1876	N	MET	1071	20.639	17.510	5.655	1.00	23.05	7
ATOM	1877	CA	MET	1071	21.452	18.703	5.785		23.05	6
ATOM	1878	CB	MET	1071	21.367	19.310	7.201		19.93	6
ATOM	1879	CG	MET	1071	20.030	19.910	7.631		19.93	6
ATOM	1880	SD	MET	1071	20.030	20.344	9.411		19.93	16
ATOM	1881	CE	MET	1071	18.390	20.544	9.751	1.00	19.93	6
		C	MET	1071	22.888	18.243	5.504		23.05	6
ATOM	1882									8
ATOM	1883	0	MET	1071	 23.591	18.880	4.744		23.05	
ATOM	1884	N	ARG	1072	23.319	17.124	6.082		51.65	7
MOTA	1885	CA	ARG	1072	24.689	16.669	5.864		51.65	6
MOTA	1886	CB	ARG	1072	24.978	15.434	6.696		98.84	6
ATOM	1887	CG	ARG	1072	24.870	15.716	8.162		98.84	6
ATOM	1888	CD	ARG	1072	26.125	16.339	8.727		98.84	6
MOTA	1889	NE	ARG	1072	27.004	15.305	9.271	1.00	98.84	7
ATOM	1890	CZ	ARG	1072	27.992	15.530	10.131	1.00	98.84	6
ATOM	1891	NHl	ARG	1072	28.232	16.767	10.546	1.00	98.84	7
ATOM	1892	NH2	ARG	1072	28.724	14.521	10.593	1.00	98.84	7
ATOM	1893	С	ARG	1072	25.023	16.404	4.401	1.00	51.65	6
ATOM	1894	0	ARG	1072	26.150	16.659	3.973		51.65	8
ATOM	1895	N	GLN	1073	24.073	15.900	3.617		27.54	7
ATOM	1896	CA	GLN	1073	24.376	15.679	2.211		27.54	6
ATOM	1897	CB	GLN	1073	23.347	14.746	1.568		67.93	6
ATOM	1898	CG	GLN	1073	21.934	15.149	1.789		67.93	6
ATOM	1899	CD	GLN	1073	20.972	14.026	1.527		67.93	6
		OEl	GLN		20.889	13.066	2.298		67.93	8
ATOM	1900			1073					67.93	7
ATOM	1901	NE2	GLN	1073	20.238	14.127	0.422			6
ATOM	1902	C	GLN	1073	24.449	17.041	1.500	1.00	27.54	
ATOM	1903	0	GLN .		25.088	17.162	0.453		27.54	8
ATOM	1904	N	CYS	1074	23.816	18.070	2.072		36.16	7
ATOM	1905	CA	CYS	1074	23.858	19.423	1.497		36.16	6
MOTA	1906	CB	CYS	1074	22.925	20.393	2.243		40.38	6
ATOM	1907	SG	CYS	1074	21.201	20.463	1.797		40.38	16
ATOM	1908	C	CYS	1074	25.282	19.995	1.627	1.00	36.16	б
MOTA	1909	0	CYS	1074	25.746	20.748	0.767	1.00	36.16	8
MOTA	1910	N	TRP	1075	25.958	19.619	2.716	1.00	26.48	7
ATOM	1911	CA	TRP	1075	27.302	20.120	3.049	1.00	26.48	6
MOTA	1912	CB	TRP	1075	27.413	20.389	4.570	1.00	32.15	6
MOTA	1913	ĊG	TRP	1075	26.260	21.224	5.181	1.00	32.15	6
ATOM	1914	CD2	TRP	1075	25.679	21.080	6.485		32.15	6
ATOM	1915	CE2	TRP	1075	24.682	22.075	6.613		32.15	6
ATOM	1916	CE3	TRP	1075	25.901	20.211	7.553		32.15	б
			TRP	1075	25.607	22.272	4.597		32.15	6
ATOM	1917								32.15	7
MOTA	1918		TRP	1075	24.662	22.783	5.449		32.15	6
ATOM	1919	CZ2	TRP	1075	23.909	22.222	7.774		32.15	6
ATOM	1920	CZ3	TRP	1075	25.133	20.361	8.703			
ATOM	1921	CH2	TRP	1075	24.148	21.357	8.807		32.15	6
MOTA	1922	С	TRP	1075	28.471	19.236	2.622		26.48	6
MOTA	1923	0	TRP	1075	29.599	19.447	3.071		26.48	8
MOTA	1924	N	ARG	1076	28.209	18.265	1.751		51.58	7
ATOM	1925	CA	ARG	1076	29.258	17.367	1.279		51.58	6
ATOM	1926	CB	ARG	1076	28.683	16.391	0.249	1.00	67.56	6

ATOM	1927	CG	ARG	1076	27.618	15.509	0.847	1.00 67.56	6
ATOM	1928	CD	ARG	1076	27.279	14.291	0.009	1.00 67.56	6
ATOM	1929	NE	ARG	1076	26.267	13.485	0.690	1.00 67.56	7
ATOM	1930	CZ	ARG	1076	25.731	12.365	0.215	1.00 67.56	6
MOTA	1931	NHl	ARG	1076	26.104	11.891	-0.966	1.00 67.56	7
ATOM	1932	NH2	ARG	1076	24.819	11.714	0.929	1.00 67.56	7
ATOM	1933	C	ARG	1076	30.431	18.157	0.710	1.00 51.58	6
MOTA	1934	0	ARG	1076	30.238	19.206	0.103	1.00 51.58	8
ATOM	1935	N	GLU	1077	31.642	17.651	0.941	1.00 50.74	7
ATOM	1936	CA	GLU	1077	32.885	18.281	0.488	1.00 50.74	6
ATOM	1937	CB	GLU	1077	34.059	17.419	0.893	1.00 91.21	6
MOTA	1938	C	GLU	1077	32.927	18.540	-1.013	1.00 50.74	6
MOTA	1939	0	GLU	1077	33.213	19.657	-1.450	1.00 50.74	8
ATOM	1940	N	LYS	1078	 32.656	17.494	-1.790	1.00 49.20	7
MOTA	1941	CA	LYS	1078	32.657	17.579	-3.240	1.00 49.20	6
ATOM	1942	CB	LYS	1078	32.895	16.197	-3.847	1.00 93.58	6
MOTA	1943	CG	LYS	1078	34.289	15.666	-3.640	1.00 93.51	6
MOTA	1944	CD	LYS	1078	34.458	14.341	-4.346	1.00 93.51	6
MOTA	1945	CE	LYS	1078	35.872	13.806	-4.191	1.00 93.51	6
MOTA	1946	NZ	LYS	1078	36.025	12.476	-4.860	1.00 93.51	7
MOTA	1947	С	LYS	1078	31.345	18.145	-3.760	1.00 49.20	б
ATOM	1948	0	LYS	1078	30.290	17.528	-3.617	1.00 49.20	8
ATOM	1949	N	PRO	1079	31.390	19.341	~4.366	1.00 30.47	7
ATOM	1950	CD	PRO	1079	32.592	20.190	-4.459	1.00 29.67	6
ATOM	1951	CA	PRO	1079	30.236	20.040	-4.931	1.00 30.47	б
MOTA	1952	CB	PRO	1079	30.887	21.098	-5.791	1.00 29.67	6
MOTA	1953	CG	PRO	1079	32.024	21.511	-4.914	1.00 29.67	6
ATOM	1954	C	PRO	1079	29.235	19.190	-5.711	1.00 30.47	6
MOTA	1955	0	PRO	1079	28.040	19.221	-5.420	1.00 30.47	8 7
MOTA	1956	N	TYR	1080	29.708	18.462	-6.718	1.00 44.53	6
ATOM	1957	CA	TYR	1080	28.821	17.616	-7.520	1.00 44.53	6
MOTA	1958	CB	TYR	1080	29.576	17.054	-8.730	1.00 62.16	6
MOTA	1959	CG	TYR	1080	30.938	16.479	-8.412	1.00 62.16	6
MOTA	1960	CD1	TYR	1080	31.072	15.207	-7.859	1.00 62.16	6
MOTA	1961	CEl	TYR	1080	32.329	14.691	-7.531	1.00 62.16	6
MOTA	1962	CD2	TYR	1080	32.095	17.223	-8.636	1.00 62.16	6
ATOM	1963	CE2	TYR	1080	33.351	16.722	-8.312	1.00 62.16	6
ATOM	1964	CZ	TYR	1080	33.462	15.458	-7.757	1.00 62.16	
ATOM	1965	OH	TYR	1080	34.701	14.970	-7.409	1.00 62.16	8 6
ATOM	1966	C	TYR	1080	28.232	16.490	-6.672	1.00 44.53	8
ATOM	1967	0	TYR	1080	27.282		-7.087	1.00 44.53	7
ATOM	1968	N	GLU	1081	28.792	16.285	-5.484	1.00 41.53	
MOTA	1969	ĊA	GLU	1081	28.285	15.257	-4.588	1.00 41.53	6
MOTA	1970	CB	GLU	1081	29.373	14.767	-3.638	1.00 60.45	6
MOTA	1971	CG	GLU	1081	30.292	13.713	-4.220	1.00 60.45	6
MOTA	1972	CD	GLU	1081	31.240	13.143	-3.182	1.00 60.45	б
MOTA	1973	OE1	GLU	1081	31.903	12.119	-3.470	1.00 60.45	8
ATOM	1974	OE2	GLU	1081	31.323	13.726	-2.079	1.00 60.45	8
ATOM	1975	C	GLU	1081	27.114	15.809	-3.778	1.00 41.53	6
ATOM	1976	0	GLU	1081	26.512	15.099	-2.972	1.00 41.53	8
MOTA	1977	N	ARG	1082	26.812	17.087	-3.975	1.00 50.75	7
ATOM	1978	CA	ARG	1082	25.702	17.706	-3.280	1.00 50.75	6
ATOM	1979	СВ	ARG	1082	25.979	19.207	-3.053	1.00 30.76	6
ATOM	1980	CG	ARG	1082	26.429	19.535	-1.624	1.00 30.76	6
ATOM	1981	CD	ARG	1082	27.857	20.100	-1.505	1.00 30.76	6
ATOM	1982	NE	ARG	1082	27.939	21.540	-1.743	1.00 30.76	7
ATOM	1983	CZ	ARG	1082	29.060	22.258	-1.663	1.00 30.76	6

									_
ATOM	2041	0	LEU	1089	10.804	17.270	-1.423	1.00 31.43	8
ATOM	2042	N	VAL	1090	11.920	16.619	-3.265	1.00 26.46	7
ATOM	2043	CA	VAL	1090	11.346	15.288	-3.242	1.00 26.46	б
ATOM	2044	CB	VAL	1090	12.042	14.338	-4.171	1.00 24.17	6
ATOM	2045	CG1	VAL	1090	11.419	12.957	-4.012	1.00 24.17	б
ATOM	2046	CG2	VAL	1090	11.913	14.819	-5.581	1.00 24.17	б
ATOM	2047	C	VAL	1090	11.441	14.697	-1.861	1.00 26.46	6
ATOM	2048	0	VAL	1090	10.476	14.126	-1.362	1.00 26.46	8
	2049	N	SER	1091	12.600	14.819	-1.235	1.00 24.68	7
MOTA	2049	CA	SER	1091	12.726	14.276	0.094	1.00 24.68	6
MOTA			SER	1091	14.156	14.407	0.599	1.00 45.28	6
ATOM	2051	CB			15.039	13.699	-0.249	1.00 45.28	8
ATOM	2052	OG	SER	1091	11.742	14.999	1.006	1.00 24.68	6
MOTA	2053	C	SER	1091		14.379	1.471	1.00 24.68	8
ATOM	2054	0	SER	1091	10.796		1.231	1.00 24.00	7
ATOM	2055	N	LEU	1092	11.919	16.302		1.00 45.44	6
ATOM	2056	CA	LEU	1092	11.001	17.031	2.112		6
MOTA	2057	CB	LEU	1092	11.127	18.557	1.905	1.00 19.86	6
ATOM	2058	CG	LEU	1092	12.518	19.144	2.242	1.00 19.86	
ATOM	2059	CD1	LEU	1092	12.611	20.594	1.810	1.00 19.86	6
ATOM	2060	CD2	LEU	1092	12.793	19.007	3.728	1.00 19.86	6
ATOM	2061	C	LEU	1092	9.554	16.568	1.918	1.00 45.44	6
ATOM	2062	0	LEU	1092	8.821	16.438	2.891	1.00 45.44	8
MOTA	2063	N	ASN	1093	9.162	16.275	0.678	1.00 44.52	7
ATOM	2064	CA	ASN	1093	7.797	15.820	0.360	1.00 44.52	6
ATOM	2065	CB	ASN	1093	7.578	15.906	-1.147	1.00 34.39	6
ATOM	2066	CG	ASN	1093	7.266	17.302	-1.586	1.00 34.39	б
ATOM	2067		ASN	1093	7.572	17.705	-2.703	1.00 34.39	8
ATOM	2068		ASN	1093	6.639	18.061	-0.698	1.00 34.39	7
ATOM .	2069	C	ASN	1093	7.501	14.414	0.849	1.00 44.52	6
	2009	0	ASN	1093	6.437	14.137	1.401	1.00 44.52	8
ATOM			ARG	1094	8.458	13.529	0.631	1.00 42.85	7
ATOM	2071	N		1094	8.329	12.168	1.074	1.00 42.85	6
ATOM	2072	CA	ARG	1094	9.491	11.353	0.472	1.00 83.86	6
ATOM	2073	CB	ARG		10.129	10.325	1.373	1.00 83.62	6
MOTA	2074	CG	ARG	1094		10.323	2.328	1.00 83.62	6
ATOM	2075	CD	ARG	1094	11.099		3.359	1.00 83.62	7
MOTA	2076	NE	ARG	1094	11.576	10.076	4.163	1.00 83.62	6
ATOM	2077	CZ	ARG	1094	10.787	9.365		1.00 83.62	7
MOTA	2078	NH1	ARG	1094	9.466	9.461	4.070		7
MOTA	2079	NH2	ARG	1094	11.323	8.549	5.061	1.00 83.62	6
ATOM	2080	C	ARG	1094	8.293	12.166	2.628	1.00 42.85	8
ATOM	2081	0	ARG	1094	7.667	11.308	3.239	1.00 42.85	
MOTA	2082	. N	MET	1095	8.934	13.151	3.253	1.00 51.73	7
ATOM	2083	ĆA	MET	1095	8.991	13.279	4.712	1.00 51.73	6
ATOM	2084	CB	MET	1095	10.206	14.135	5.109	1.00 28.03	6
ATOM	2085	CG	MET	1095	11.242	13.507	5.999	1.00 28.03	6
ATOM	2086	SD	MET	1095	12.707	14.551	6.044	1.00 28.03	16
ATOM	2087	CE	MET	1095	13.094	14.706	4.302	1.00 28.03	6
ATOM	2088	C	MET	1095	7.757	13.989	5.274	1.00 51.73	6
ATOM	2089	0	MET	1095	7.425	13.870	6.450	1.00 51.73	8
		N	LEU	1096	7.123	14.763	4.413	1.00 48.50	7
ATOM	2090	CA	LEU	1096	5.981	15.557	4.825	1.00 48.50	6
ATOM	2091				5.889	16.790	3.951	1.00 41.93	6
ATOM	2092	CB	LEU	1096		18.048	4.638	1.00 41.93	6
ATOM	2093	CG	LEU	1096	6.365	19.139	3.616	1.00 41.93	6
ATOM	2094		LEU	1096	6.177		5.911	1.00 41.93	6
MOTA	2095		LEU	1096	5.593	18.342	4.783	1.00 48.50	6
ATOM	2096	С	LEU	1096	4.663	14.859		1.00 48.50	8
MOTA	2097	0	LEU	1096	3.747	15.199	5.536	1.00 40.00	_

ATOM	2098	N	GLU	1097	4.537	13.900	3.890	1.00 62.96	7
MOTA	2099	CA	GLU	1097	3.261	13.252	3.809	1.00 63.28	6
MOTA	2100	CB	GLU	1097	3.046	12.672	2.424	1.00 90.58	6
MOTA	2101	CG	GLU	1097	2.625	13.708	1.449	1.00 90.58	6
ATOM	2102	CD	GLU	1097	2.523	13.139	0.080	1.00 90.58	6
ATOM	2103	OE 1	LGLU	1097	3.480	12.481	-0.333	1.00 90.58	8
MOTA	2104	OE2	GLU	1097	1.492	13.317	-0.587	1.00 90.58	8
MOTA	2105	C	GLU	1097	3.099	12.216	4.892	1.00 64.94	6
MOTA	2106	0	GLÜ	1097	2.839	11.051	4.616	1.00 67.39	8
MOTA	2107	N	GLU	1098	3.279	12.659	6.137	1.00 99.89	7
MOTA	2108	CA	GLU	1098	3.132	11.782	7.288	1.00 99.89	6
ATOM	2109	CB	GLU	1098	4.342	10.880	7.434	1.00 62.46	6
ATOM	2110	CG	GLU	1098	4.908	10.367	6.157	1.00 62.46	6
ATOM	2111	CD	GLÜ	1098	 6.147	9.556	6.415	1.00 62.46	6
MOTA	2112	OE1	GLU	1098	6.614	9.58 <i>6</i>	7.576	1.00 62.46	8
ATOM	2113	OE2	GLU	1098	6.653	8.914	5.474	1.00 62.46	8
ATOM	2114	C	GLU	1098	2.928	12.540	8.608	1.00 99.89	6
MOTA	2115	0	GLU	1098	1.962	12.277	9.312	1.00 99.89	8
MOTA	2116	N	ARG	1099	3.815	13.483	8.937	1.00100.00	7
ATOM	2117	CA	ARG	1099	3.735	14.251	10.201	1.00100.00	6
MOTA	2118	CB	ARG	1099	2.339	14.863	10.443	1.00 95.05	6
ATOM	2119	CG	ARG	1099	2.140	15.416	11.871	1.00 83.68	6
MOTA	2120	CD	ARG	1099	3.239	16.413	12.239	1.00 83.68	6
ATOM	2121	NE	ARG	1099	3.123	16.915	13.609	1.00 83.68	7
ATOM	2122	CZ	ARG	1099	3.314	18.185	13.955	1.00 83.68	6
ATOM	2123	NH1	ARG	1099	3.636	19.072	13.024	1.00 83.68	7
MOTA	2124	NH2	ARG	1099	3.179	18.572	15.222	1.00 83.68	7
ATOM	2125	C	ARG	1099	4.083	13.322	11.354	1.00100.00	6
MOTA	2126	0	ARG	1099	3.393	13.259	12.370	1.00100.00	8
ATOM	2127	N	LYS	1100	5.153	12.570	11.174	1.00 88.41	7
MOTA	2128	CA	LYS	1100	5.572	11.681	12.224	1.00 88.41	6
ATOM	2129	CB	LYS	1100	6.250	10.454	11.641	1.00 87.41	6
ATOM	2130	CG	LYS	1100	5.322	9.628	10.762	1.00 87.41	6
MOTA	2131	CD	LYS	1100	3.984	9.336	11.456	1.00 87.41	6
MOTA	2132	CE	LYS	1100	4.165	8.742	12.861	1.00 59.92	6
ATOM	2133	NZ	LYS	1100	4.852	7.411	12.877	1.00 59.92	7
ATOM	2134	С	LYS	1100	6.519	12.453	13.123	1.00 88.41	6
MOTA	2135	0	LYS	1100	7.597	11.969	13.470	1.00 88.41	8
ATOM	2136	N	THR	1101	6.112	13.672	13.472	1.00100.00	7
ATOM	2137	CA	THR	1101	6.892	14.519	14.356	1.00100.00	6
ATOM	2138	CB	THR	1101	6.795	13.998	15.811	1,00100.00	6
ATOM	2139	OG1	THR	1101	5.426	14.034	16.239	1.00 90.24	8
ATOM	2140	CG2	THR	1101	7.652	14.836	16.750	1.00 90.24	6
ATOM	2141	С	THR	1101	8.362	14.565	13.927	1.00100.00	6
ATOM	2142	0	THR	1101	9.219	13.923	14.541	1.00100.00	8
ATOM	2143	N	TYR	1102	8.655	15.300	12.862	1.00 39.18	7
ATOM	2144	CA	TYR	1102	10.042	15.411	12.416	1.00 39.18	6
ATOM	2145	CB	TYR	1102	10.106	15.624	10.912	1.00 91.13	6
ATOM	2146	CG	TYR	1102	9.798	14.391	10.132	1.00 60.67	6
ATOM	2147	CD1	TYR	1102	8.500	14.112	9.717	1.00 60.67	6
ATOM	2148	CE1	TYR	1102	8.222	12.956	9.006	1.00 60.67	6
ATOM	2149	CD2	TYR	1102	10.809	13.487	9.821	1.00 60.67	6
ATOM	2150	CE2	TYR	1102	10.544	12.338	9.120	1.00 60.67	6
ATOM	2151	CZ	TYR	1102	9.256	12.078	8.711	1.00 60.67	6
ATOM	2152	OH	TYR	1102	9.019	10.950	7.978	1.00 60.67	8
ATOM	2153	C	TYR	1102	10.781	16.549	13.102	1.00 39.18	6
ATOM	2154	0	TYR	1102	12.003	16.594	13.102	1.00 39.18	8
		-			00	TO.234	T 0 - 0 - 0		_

ATOM 2155 N VAL 1103 10.028 17.469 13.690 1.00 80.69 7
ATOM 2156 CA VAL 1103 10.614 18.614 14.370 1.00 80.69 6
ATOM 2157 CB VAL 1103 10.585 19.857 13.466 1.00 82.85 6
ATOM 2158 CG1 VAL 1103 11.212 12.042 14.165 1.00 28.69 6
ATOM 2159 CG2 VAL 1103 11.210 19.565 12.172 1.00 25.69 6
ATOM 2150 C VAL 1103 8.677 19.395 15.529 1.00 80.69 6
ATOM 2161 O VAL 1103 8.677 19.395 15.529 1.00 80.69 8
ATOM 2162 N ASN 1104 10.345 18.570 16.767 1.00 61.67 7
ATOM 2163 CG VAL 1103 18.677 19.395 15.529 1.00 80.69 8
ATOM 2164 CB ASN 1104 9.624 18.773 18.003 1.00 61.67 6
ATOM 2165 CG ASN 1104 9.624 18.773 18.003 1.00 61.67 6
ATOM 2165 CG ASN 1104 9.344 17.404 20.054 1.00 53.92 6
ATOM 2166 ODI ASN 1104 9.404 10.345 18.053 19.05 10.00 80.59 8
ATOM 2166 CD ASN 1104 9.404 10.305 18.051 19.12 1.00 39.99 6
ATOM 2167 NDZ ASN 1104 9.404 20.054 1.00 53.92 6
ATOM 2168 C ASN 1104 9.404 20.240 18.395 10.00 61.67 6
ATOM 2167 NDZ ASN 1104 9.405 20.240 18.395 10.00 61.67 6
ATOM 2167 NDZ ASN 1104 9.407 20.240 18.395 10.00 53.92 7
ATOM 2167 C ATOM 1104 10.453 20.966 18.494 1.00 61.67 8
ATOM 2167 NDZ ASN 1104 9.470 20.240 18.395 10.00 53.82 8
ATOM 2171 CA THR 1105 7.960 22.059 19.024 1.00 43.79 7
ATOM 2171 CA THR 1105 7.960 22.059 19.024 1.00 43.79 6
ATOM 2175 C THR 1105 7.805 22.933 61.00 53.62 6
ATOM 2175 C THR 1105 7.835 22.933 61.00 53.15 6
ATOM 2175 C THR 1105 7.835 22.933 61.00 44.79 6
ATOM 2175 C THR 1105 7.835 22.932 61.00 64.07 47.73 6
ATOM 2176 C THR 1105 7.838 22.932 61.00 64.07 47.73 6
ATOM 2178 CA THR 1106 7.338 20.905 21.016 1.00 47.73 7
ATOM 2178 CA THR 1106 7.338 20.905 21.016 1.00 47.73 7
ATOM 2179 CB THR 1106 7.338 20.905 21.016 1.00 47.73 8
ATOM 2180 CG1 THR 1106 7.938 20.905 21.016 1.00 47.73 8
ATOM 2181 CG2 THR 1106 7.855 19.415 22.211 1.00 40.62 6
ATOM 2181 CG2 THR 1106 7.938 20.905 21.016 1.00 47.73 8
ATOM 2180 CG1 LEU 1107 8.855 21.92 25.77 1.00 40.62 6
ATOM 2190 C LEU 1107 8.856 21.91 19.43 27.75 11.00 40.62 6
ATOM 2191 C LEU 1107 8.856 21.91 19.43 27.75 11.00 40.62 6
ATOM 2192 C LEU 1107 8.856 21.91 19.43 27.75 11.00 40.62 6

MOTA	2212	C	LYS	1110	15.168	20.134	27.023	1.00	54.62	6
ATOM	2213	0	LYS	1110	15.875	19.561	26.181	1.00	54.62	8
ATOM	2214	N	PHE	1111	14.506	21.258	26.825		53.78	7
ATOM	2215	CA	PHE	1111	14.527	21.994	25.551		53.78	6
ATOM	2215	CB	PHE	1111	13.134	22.558	25.259		97.53	6
ATOM	2217	CG	PHE	1111	12.847	22.718	23.764		42.19	6
MOTA	2218		PHE	1111	12.368	21.631	23.023		42.19	6
MOTA	2219		PHE	1111	13.062	23.951	23.140		42.19	б
ATOM	2220	CE1	PHE	1111	12.104	21.779	21.655		42.19	6
ATOM	2221	CE2	PHE	1111	12.798	24.100	21.773	1.00	42.19	6
ATOM	2222	CZ	PHE	1111	12.318	23.013	21.031	1.00	42.19	6
ATOM	2223	C	PHE	1111	15.528	23.149	25.640	1.00	53.78	б
ATOM	2224	0	PHE	1111	15.647	23.812	26.681	1.00	53.78	8
ATOM	2225	N	THR	1112	16.171	23.593	24.331	1.00	41.67	7
ATOM	2226	CA	THR	1112	17.246	24.596	24.296	1.00	41.67	6
ATOM	2227	CB	THR	1112	18.609	23.900	24.280			· 6
ATOM	2228	OG1		1112	18.657	22.952	23.224		45.38	8
ATOM	2229	CG2	THR	1112	18.915	23.153	25.579		45.38	6
							23.041		41.67	6
ATOM	2230	C	THR	1112	17.113	25.461				
ATOM	2231	0	THR	1112	16.476	25.063	22.055		41.67	8
ATOM	2232	N	TYR	1113	17.727	26.628	23.125		88.60	7
MOTA	2233	CA	TYR	1113	17.729	27.614	22.034		88.60	6
MOTA	2234	CB	TYR	1113	16.857	28.816	22.408		72.51	б
MOTA	2235	CG	TYR	1113	15.375	28.464	22.561	1.00	11.65	6
ATOM	2236	CD1	TYR	1113	14.778	28.484	23.827	1.00	11.65	6
ATOM	2237	CE1	TYR	1113	13.422	28.166	23.967	1.00	11.65	6
ATOM	2238	CD2	TYR	1113	14.614	28.124	21.435	1.00	11.65	6
ATOM	2239	CE2	TYR	1113	13.258	27.806	21.575	1.00	11.65	б
MOTA	2240	CZ.	TYR	1113	12.662	27.827	22.842		11.65	6
MOTA	2241	OH	TYR	1113	11.344	27.518	22.978		11.65	8
ATOM	2242	C	TYR	1113	19.155	28.108	21.772		88.60	6
					20.133	27.378	21.991		88.60	8
ATOM	2243	0	TYR	1113						7
ATOM	2244	N	ALA	1114	19.217	29.344	21.309		62.73	6
MOTA	2245	CA	ALA	1114	20.484	30.020	20.989		62.73	
ATOM	2246	CB	ALA	1114	21.530	28.992	20.552	1.00	7.22	6
ATOM	2247	C	ALA	1114	20.268	31.024	19.854		62.73	6
ATCM	2248	0	ALA	1114	20.108	30.642	18.685	1.00	62.73	8
ATOM	2249	N	GLY	1115	20.271	32.287	20.241	1.00	60.96	7
MOTA	2250	CA	GLY	1115	20.078	33.409	19.310	1.00	60.96	6
MOTA	2251	С	GLY	1115	21.034	34.552	19.657	1.00	60.96	б
MOTA	2252	0	GLY	1115	20.817	35.296	20.625	1.00	60.96	8
ATOM	2253	N	ILE	1116	22.069	34.651	18.843		82.32	7
ATOM	2254	CA	ÍLE	1116	23.110		18.992		82.32	6
ATOM	2255	CB	ILE	1116	22.488		18.892		68.50	6
MOTA	2256	CD	ILE	1116	23.796		20.352		82.32	6
		_			24.984	35.192			82.32	8
ATOM	2257	0	ILE	1116					64.86	8
ATOM	2258	OXT	نطيلا	1116	23.443	36.522	21.208	1.00	04.00	6
TER										_
HETATM		C29*		1	14.137		-1.896		87.75	6
HETATM		Cl30	TEM	1		44.384			92.68	9
HETATM	2261	C31	TEM	1	13.532	43.986	-0.603		84.61	6
HETATM	2262	C32	TEM	1	10.062	43.539	1.417	1.00	72.29	6
HETATM	2263	C28	TEM	1	13.152	42.505	-7,029		92.68	6
HETATM		C8	TEM	1	11.669	44.356	4.626	1.00	64.60	6
HETATM			TEM	1	12.234	43.146	5.418	1.00	62.65	6
HETATM		C10		1	12.979	43.794	6.609		61.60	6
HETATM		C11		1	13.328	45.233	6.175		61.11	6
TETATM	4401		TOM	<u> </u>			0.2/5	4.00		-

אות מינים א	2250	~ 12	CTTN4	-	70 700		. =			_
HETATM			TEM	1	12.788	45.420			62.68	6
HETATM		C13	TEM	1	12.175	43.912	2.185	-	71.00	6
HETATM		N7	TEM	1	11.303	44.043	3.228		67.78	7
HETATM		Nl	TEM	1	8.672	43.004	-0.559	1.00	73.02	7
HETATM		C2	TEM	1	8.784	43.270	0.784	1.00	71.64	6
HETATM	2273	NЗ	TEM	1	7.669	43.306	1.546	1.00	71.42	7
HETATM	2274	C4	TEM	1	7.718	43.568	2.851	1.00	69.68	6
HETATM	2275	N5	TEM	1	8.853	43.811	3.473	1.00	68.84	7
HETATM	2276	C6	TEM	1	10.030	43.817	2.820	1.00	69.92	6
HETATM	2277	C14	TEM	1	11.530	43.630	1.036	1.00	75.68	6
HETATM	2278	022	TEM	1	13.956	40.236	-4.115	1.00	92.68	8
HETATM	2279	C23	TEM	1	13.420	41.285	-6.355	1.00	92.68	6
HETATM	2280	C24	TEM	1 /	12.844	40.071	-6.856	1.00	92.68	6
HETATM	2281	C25	TEM	1	12.014	40.102	-8.027	1.00	92.68	6
HETATM	2282	C26	TEM	1	11.757	41.334	-8.689	1.00	92.68	6
HETATM	2283	C27	TEM	1	12.330	42.534	-8.187	1.00	92.68	6
HETATM	2284	021	TEM	1	15.786	41.592	-5.276	1.00	92.68	8
HETATM	2285	C15	TEM	1	12.216	43.429	-0.313	1.00	80.63	6
HETATM	2286	C16	TEM	1.	11.576	42.675	-1.308	1.00	83.45	6
HETATM	2287	C17	TEM	1	12.141	42.492	-2.551	1.00	87.27	6
HETATM	2288	C18	TEM	1	13.399	43.018	-2.887	1.00	88.78	6
HETATM	2289	N19	TEM	1	13.818	42.732	-4.220	1.00	90.27	7
HETATM	2290	S20	TEM	1	14.444	41.335	-4.875	1.00	92.68	16
MOTA	2291	S	SO4	2	25.361	40.893	-8.736	1.00	15.55	16
MOTA	2292	01	SO4	2	26.331	39.742	-8.499	1.00	20.26	8
MOTA	2293	02	504	2	25.230	41.131	-10.222	1.00	12.30	8
ATOM	2294	03	SO4	2	23.982	40.607	-8.171	1.00	16.39	8
ATOM	2295	04	SO4	2	25.930	42.110	-8.051	1.00		8
END	_			-		· 			- · · · -	-

ATOM	1	N	VAL	A	818	77.669	47.027	2.354	1.00	20.00
ATOM	2	CA	VAL	Α	818	76.422	47.479	1.690	1.00	20.00
ATOM	3	С	VAL	A	818	75.257	46.471	1.737	1.00	20.00
ATOM	4	0	VAL			75.361	45.363	2.335	1.00	20.00
ATOM	5	CB	VAL			76.716	47.863	0.250		20.00
ATOM	9	N	LEU			74.145	46.870	1.095		20.00
ATOM	10	CA	LEU			72.922	46.055	1.058		20.00
ATOM	11	C	LEU			72.341	45.959	-0.347		20.00
ATOM	12	0	LEU			71.187	46.223	-0.571		20.00
ATOM	13	CB	LEU			71.897	46.637	2.052		20.00
ATOM	14	CG	LEU			70.399	46.340	1.987		20.00
ATOM	15	CD1				70.026	45.327	3.039		20.00
ATOM	16	CD2				69.612	47.643	2.186		20.00
ATOM	18	N	ASP			73.165	45.565	-1.294		20.00
			ASP			72.758	45.427	-2.685		20.00
ATOM	19	CA								20.00
ATOM	20	C	ASP			71.419	45.961	-3.188		20.00
ATOM	21	0.	ASP			70.510	45.182	-3.445		
ATOM	22	CB	ASP			72.867	43.971	-3.103		20.00
ATOM	23	CG	ASP			72.637	43.799	-4.570		20.00
MOTA	24		ASP			72.617	42.622	-5.045	1.00	20.00
ATOM	25		ASP			72.468	44.861	-5.242		20.00
ATOM	27	N	TRP			71.336	47.280	-3.390		20.00
ATOM	28	CA	TRP			70.128	47.958	-3.916		20.00
ATOM	29	С			821	69.296	47.063	-4.814		20.00
ATOM	30	0	TRP	Α	821	68.077	47.237	-4.938	1.00	20.00
MOTA	31	CB	TRP	A	821	70.479	49.190	-4.782		20.00
ATOM	32	CG			821	69.336	50.211	-4.771		20.00
ATOM .	33	CD1	TRP	A	821	68.872	50.892	-3.675	1.00	20.00
MOTA	34	CD2	TRP	A	821	68.465	50.552	-5.841		20.00
ATOM	35	NE1	TRP	Α	821	67.753	51.628	-4.001	1.00	20.00
ATOM	36	CE2	TRP	A	821	67.482	51.435	-5.325	1.00	20.00
ATOM	37	CE3	TRP	A	821	68.408	50.201	-7.177	1.00	20.00
ATOM	38	CZ2	TRP	A	821	66.462	51.963	-6.104	1.00	20.00
ATOM	39	CZ3	TRP	A	821	67.382	50.730	-7.962	1.00	20.00
ATOM	40	CH2	TRP			66.430	51.597	-7.420	1.00	20.00
ATOM	43	N	ASN			69.999	46.156	-5.498	1.00	20.00
ATOM	44	CA	ASN			69.370	45.213	-6.404	1.00	20.00
ATOM	45.	C	ASN			67.947	44.823	-5.911	1.00	20.00
ATOM	46	0	ASN			67.000	44.734	-6.707	1.00	
ATOM	47	CB	ASN			70.291	43.986	-6.531		20.00
ATOM	48 ·	CG.	ASN			69.610	42.766	-7.181		20.00
ATOM	49	•	ASN			69.287	42.766	-8.393		20.00
			ASN			69.406	41.706	-6.377		20.00
ATOM	50	ND2						-4.602		20.00
ATOM	54	N	ASP			67.778 66.472	44.632 44.212	-4.129		20.00
ATOM	55	CA	ASP							20.00
ATOM	56	C	ASP			65.921	44.808	-2.847		20.00
ATOM	57	0	ASP			66.179	44.295	-1.758		
ATOM	58	CB	ASP			66.454	42.681	-4.008		20.00
ATOM	60	N	ILE			65.166	45.894	-2.988		20.00
ATOM	61	CA	ILE			64.480	46.524	-1.859		20.00
ATOM	62	C	ILE			63.021	46.501	-2.412		20.00
ATOM	63	0 .	ILE			62.776	46.906	-3.570		20.00
ATOM	64	CB	ILE			64.955	48.019	-1.586		20.00
ATOM	65	CG1	ILE	A	824	65.666 [.]	48.576	-2.803		20.00
ATOM	66	CG2	ILE			65.845	48.113	-0.382		20.00
MOTA	67	CD1	ILE	A	824	67.135	48.549	-2.681	1.00	20.00

ATOM	69	N	LYS	A	825	62.077	45.969	-1.626	1.00	20.00
ATOM	70	CA	LYS	А	825	60.645	45.921	-2.029	1.00	20.00
ATOM	71	C			825	59.922	47.060	-1.266	1.00	20.00
ATOM	72	0			825	59.578	46.946	-0.097	1.00	20.00
ATOM	73	CB			825	60.043	44.561	-1.696	1.00	20.00
ATOM	75	N	PHE			59.696	48.147	-1.988	1.00	20.00
ATOM	76	CA			826	59.153	49.401	-1.462	1.00	20.00
ATOM	77	C			826	57.643	49.569	-1.593		20.00
ATOM	78	0			826	57.160	50.073	-2.593		20.00
ATOM	79	CB	PHE			59.882	50.481	-2.224		20.00
MOTA	80	CG	PHE			60.298	50.013	-3.604	1.00	
ATOM	81	CD1				59.336	49.841	-4.613	1.00	
ATOM ATOM	82	CD2				61.611	49.711	-3.887	1.00	
ATOM	83	CE1				59.675	49.383	-5.876	1.00	
ATOM	84 95	CE2	PHE		•	61.960	49.249	-5.145		20.00
ATOM	85	CZ	PHE			60.984	49.086	-6.144	1.00	
ATOM	87	N	GLN			56.919	49.173	-0.550		20.00
ATOM	88 89	CA C	GLN GLN			55.459	49.206	-0.491	1.00	
ATOM	90	0	GLN			54.788	50.547	-0.268	1.00	20.00
ATOM	91	CB	GLN			54.134	51.071	-1.177		20.00
ATOM	92	CG	GLN .			54.978	48.268	0.591	1.00	20.00
ATOM	93	CD	GLN			56.111 56.511	47.581	1.340		20.00
ATOM	94	OE1				56.636	46.315	0.637 1.256		20.00
ATOM	95	NE2	GLN .			56.688	45.253 46.410	-0.675	1.00	20.00
ATOM	99	N			828	54.918	51.103	0.928		20.00
ATOM	100	CA	ASP :			54.261	52.360	1.165		20.00
ATOM	101	C	ASP .			54.815	53.309	2.231		20.00
ATOM	102	o			828	55.694	52.973	3.033	1.00	
ATOM	103	CB	ASP 3			52.856	52.049	1.499		20.00
ATOM	104	CG	ASP I			52.783	50.948	2.460	1.00	20.00
ATOM	105		ASP 2			52.709	49.943	2.182	1.00	20.00
ATOM	106	OD2	ASP A			53.439	51.088	3.504	1.00	20.00
ATOM	108	N	VAL Z			54.278	54.522	2.216		20.00
ATOM	109	CA	VAL A			54.681	55.525	3.158	1.00	
ATOM	110	С	VAL 2			54.405	54.794	4.471		20.00
ATOM	111	0	VAL A			53.373	54.176	4.562		20.00
ATOM	112	CB	VAL A			53.772	56.742	2.971		20.00
ATOM	114	N	ILE A			55.298	54.759	5.453		20.00
ATOM	115	CA			330	54.911	54.062	6.686	1.00	20.00
MOTA	116	С	ILE A			54.690	55.170	7.627	1.00	20.00
ATOM	117	0	ILE A			55.296	55.229	8.696		20.00
MOTA	118	ÇВ	ILE A			56.004	53.170	7.366		20.00
ATOM	119		ILE A			56.458	52.054	6.437		20.00
ATOM	120	CG2	ILE A			55.435	52.493	8.636		20.00
MOTA	121	CD1	ILE A			57.626	51.361	6.996	1.00	
ATOM	123	N	GLY A			53.802	56.059	7.244	1.00	
ATOM	124	CA	GLY A			53.588	57.205	8.087	1.00	
ATOM	125	C	GLY A			54.694	58.162	7.693	1.00	20.00
ATOM	126	0	GLY A	3 E	331	55.359	57.972	6.691	1.00	
ATOM	128	N	GLU A				59.180	8.505		20.00
ATOM	129	CA	GLU F			55.889	60.205	8.260	1.00	
ATOM	130	C	GLU A	A .	332	57.146	59.876	7.452	1.00	
ATOM	131	0	GLU A	4 8	332	57.220	58.893	6.667	1.00	
ATOM	132		GLU A			56.346	60.832	9.592	1.00	
ATOM	133		GLU A			56.473	62.337	9.489	1.00	
ATOM	134	CD	GLU A	A 8	332	55.501	62.908	8.468	1.00	20.00

	*							
ATOM	135	ΟE	l GLU A	832	54.643	63.721	8.897	1.00 20.00
ATOM	136	OE			55.599	62.524	7.266	1.00 20.00
ATOM	138	N	GLY A	833	58.134	60.754	7.680	1.00 20.00
ATOM	139	CA	GLY A	833	59.440	60.670	7.054	1.00 20.00
ATOM	140	C	GLY A	833	60.222	61.871	7.561	1.00 20.00
ATOM	141	0	GLY A	833	60.606	61.957	8.770	1.00 20.00
ATOM	143	N	ASN A	834	60.380	62.816	6.621	1.00 20.00
ATOM	144	CA	ASN A	834	61.123	64.085	6.772	1.00 20.00
ATOM	145	C	ASN A		62.555	63.797	7.139	1.00 20.00
ATOM	146	0	ASN A	834	62.796	63.133	8.141	1.00 20.00
MOTA	147	CB	ASN A	834	60.584	65.052	7.859	1.00 20.00
ATOM	148	CG	ASN A	834	61.664	66.125	8.258	1.00 20.00
ATOM	149	OD:	L ASN A	834	61.998	66.999	7.444	1.00 20.00
ATOM	150	ND2	ASN A	834	62.224	66.022	9.491	1.00 20.00
ATOM	154	N	PHE A	835	63.474	64.373	6.355	1.00 20.00
ATOM	155	CA	PHE A	835	64.922	64.216	6.526	1.00 20.00
ATOM	156	С	PHE A	835	64.972	63.040	7.488	1.00 20.00
MOTA	157	0	PHE A	835	65.560	63.063	8.616	1.00 20.00
ATOM	158	CB	PHE A	835	65.545	65.547	7.028	1.00 20.00
ATOM	159	CG	PHE A		65.828	66.560	5.895	1.00 20.00
ATOM	160	CD1	PHE A		65.442	67.913	6.013	1.00 20.00
ATOM	161		PHE A		66.534	66.176	4.742	1.00 20.00
ATOM	162		PHE A		65.761	68.870	5.004	1.00 20.00
ATOM	163	CE2			66.859	67.138	3.725	1.00 20.00
ATOM	164	CZ	PHE A		66.469	68.482	3.867	1.00 20.00
ATOM	166	N	GLY A		64.251	62.029	6.984	1.00 20.00
ATOM	167	CA	GLY A		64.025	60.759	7.647	
ATOM	168	C	GLY A		62.817	60.733	6.884	1.00 20.00 1.00 20.00
ATOM	169	0	GLY A		61.874	59.661	7.452	1.00 20.00
ATOM	171	N	GLN A		62.827	60.432		
ATOM	172	CA	GLN A		61.720		5.571	1.00 20.00
ATOM	173	C	GLN A		61.471	58.496	4.749	1.00 20:00
ATOM	174	0	GLN A		62.278		5.132	1.00 20.00
ATOM	175	CB	GLN A		62.112	57.647	4.742	1.00 20.00
ATOM	176	CG	GLN A			60.066	3.253	1.00 20.00
ATOM	177	CD	GLN A		63.459	60.807	2.984	1.00 20.00
ATOM	178	OE1	GLN A		63.541	61.552	1.605	1.00 20.00
ATOM	179	NE2	GLN A		64.298	62.539	1.447	1.00 20.00
ATOM					62.786	61.053	0.607	1.00 20.00
ATOM	183	N	VAL A		60.400	58.162	5.872	1.00 20.00
ATOM	184	CA	VAL A		60.233	56.718	6.211	1.00 20.00
	185	C	VAL A		59.296		5.400	
ATOM	186		VAL A			55.705		
ATOM	187		VAL A 8			56.442		
ATOM	188		VAL A 8		60.786		8.230	1.00 20.00
ATOM	189		VAL A 8				8.475	1.00 20.00
ATOM	191	N	LEU A 8		59.820	55.181	4.373	1.00 20.00
ATOM	192	CA	LEU A 8		59.031	54.306	3.542	1.00 20.00
MOTA	193	C	LEU A 8			52.882	4.069	1.00 20.00
ATOM	194	0	LEU A 8			52.547	5.015	1.00 20.00
ATOM	195	CB	LEU A 8			54.385	2.111	1.00 20.00
ATOM	196	CG	LEU A 8		58.912	55.608	1.396	1.00 20.00
ATOM	197		LEU A 8		58.295	56.545	2.426	1.00 20.00
MOTA	198	CD2	LEU A 8		59.886	56.367	0.533	1.00 20.00
ATOM	200	N	LYS A 8	340	58.119	52.049	3.503	1.00 20.00
ATOM	201	CA	LYS A 8	340	58.031	50.646	3.945	1.00 20.00
MOTA	202	C .	LYS A 8	340		49.724	2.927	1.00 20.00
ATOM	203	0	LYS A 8	340		49.971	1.725	1.00 20.00

ATOM	204	CE	B LYS A 840	56.577	EO 100	4 7 4 5	
ATOM	205			56.445		4.145	•
ATOM	206			55.843		5.251	
ATOM	207			55.173		4.789	
ATOM	208			56.154		5.960	
ATOM	213		ALA A 841	59.302		6.801	
ATOM	214	CA				3.383	
ATOM	215		ALA A 841	59.929		2.393	
ATOM	216		ALA A 841	60.199		2.787	
ATOM	217		ALA A 841	60.460		3.971	
ATOM	219	N	ARG A 842	61.224	48.462	1.884	1.00 20.00
ATOM	220	CA		60.111	45.506	1.759	
ATOM	221	CA	ARG A 842 ARG A 842	60.347		1.824	1.00 20.00
ATOM	221	0		61.797	43.918	1.340	1.00 20.00
ATOM			ARG A 842	62.105	43.967	0.158	1.00 20.00
ATOM	223	CB	ARG A 842	59.365	43.360	0.902	1.00 20.00
ATOM	225	N	ILE A 843	62.688	43.746	2.293	1.00 20.00
	226	CA	ILE A 843	64.113	43.638	2.034	1.00 20.00
ATOM	227	C	ILE A 843	64.747	42.223	2.205	1.00 20.00
ATOM	228	0	ILE A 843	64.527	41.503	3.201	1.00 20.00
ATOM	229	CB	ILE A 843	64.846	44.662	2.928	1.00 20.00
ATOM	230		1 ILE A 843	65.867	45.411	2.103	1.00 20.00
ATOM	231	CG2		65.469	43.996	4.130	1.00 20.00
ATOM	232		L ILE A 843	66.17 <i>6</i>	44.779	0.772	1.00 20.00
ATOM	234	N	LYS A 844	65.549	41.837	1.226	1.00 20.00
MOTA	235	CA	LYS A 844	66.190	40.551	1.273	1.00 20.00
MOTA	236	C	LYS A 844	67.652	40.641	1.709	1.00 20.00
ATOM	237	0	LYS A 844	68.540	40.820	0.869	1.00 20.00
MOTA	238	CB	LYS A 844	66.093	3 <i>9.875</i>	-0.111	1.00 20.00
MOTA	240	N	LYS A 845	67.897	40.510	3.014	1.00 20.00
ATOM	241	CA	LYS A 845	69.261	40.516	3.545	1.00 20.00
MOTA	242	Ç	LYS A 845	69.917	39.112	3.335	1.00 20.00
ATOM	243	0	LYS A 845	69.306	38.060	3.678	1.00 20.00
ATOM	244	CB	LYS A 845	69.255	40.857	5.035	1.00 20.00
MOTA	246	N	ASP A 846	71.148	39.140	2.765	1.00 20.00
ATOM	247	CA	ASP A 846	72.022	37.977	2.481	1.00 20.00
ATOM	248	С	ASP A 846	71.224	36.671	2.559	1.00 20.00
ATOM	249	0	ASP A 846	71.231	35.953	3.581	1.00 20.00
ATOM	250	CB	ASP A 846	73.214	37.987	3.484	1.00 20.00
ATOM	251	CG	ASP A 846	74.448	37.141	3.002	1.00 20.00
ATOM	252	OD1	ASP A 846	74.788	37.167	1.784	1.00 20.00
ATOM	253	OD2	ASP A 846	75.078	36.450	3.869	1.00 20.00
ATOM	255	N	GLY A 847	70.497	36.405	1.476	1.00 20.00
ATOM	256		GLY A 847		35.206	1.405	1.00 20.00
ATOM	257	C	GLY A 847	68.642	35.071	2.527	1.00 20.00
ATOM	258	0	GLY A 847	68.972	34.604	3.636	1.00 20.00
ATOM	260	N	LEU A 848	67.406	35.481	2.198	1.00 20.00
ATOM	261	CA	LEU A 848	66.192	35.495		
ATOM	262	C	LEU A 848	65.707	36.956	3.049	1.00 20.00
ATOM	263	0	LEU A 848	66.470		3.333	1.00 20.00
ATOM	264	CB	LEU A 848	66.402	37.844	3.751	1.00 20.00
ATOM	265	CG	LEU A 848		34.666	4.318	1.00 20.00
ATOM	266			66.559	35.338	5.653	1.00 20.00
ATOM			LEU A 848	66.241	34.369	6.804	1.00 20.00
ATOM	267		LEU A 848	68.011	35.849	5.755	1.00 20.00
	269	N	ARG A 849	64.434	37.188	3.011	1.00 20.00
ATOM	270	CA	ARG A 849	63.793	38.491	3.149	1.00 20.00
ATOM	271	C	ARG A 849	63.495	38.916	4.576	1.00 20.00
ATOM	272	0	ARG A 849	63.795	38.195	5.542	1.00 20.00

ATOM	273	CB	ARG	A	849	62.465	38.508	2.388	1.00	20.00
MOTA	274	CG			849	62.570	38.136	0.936	1.00	20.00
ATOM	275	CD			849	61.348	38.648	0.182	1.00	20.00
ATOM	276	NE			849	61.060	37.918	-1.060	1.00	
ATOM	277	CZ			849	60.337	36.795	-1.117	1.00	
ATOM	278	NH1			849	59.833	36.281	0.018	1.00	
ATOM	279	NH2			849	60.113	36.198	-2.308	1.00	
ATOM	286	N			850	62.903	40.112	4.678	1.00	
ATOM	287	CA	MET		850	62.466	40.710	5.938	1.00	20.00
ATOM	288	C			850	61.786	42.087	5.756		20.00
MOTA	289	0			850	61.816	42.702	4.694		20.00
ATOM	290	CB			850	63.628	40.814	6.953		20.00
ATOM	291	CG	MET		850	65.005	41.061	6.376	1.00	
ATOM	292	SD			850	66.205	41.855	7.507		20.00
ATOM	293	CE	MET		850	66.021	40.869	9.036	1.00	20.00
ATOM	295	N	ASP		851	61.105	42.523	6.800	1.00	
ATOM	296	CA			851	60.477	43.812	6.787	1.00	
ATOM ATOM	297	C	ASP ASP		851	61.586	44.780	7.213	1.00	
ATOM	298 299	O CB			851 851	62.559 59.381	44.403	7.904		20.00
ATOM	300	CG	ASP			58.154	43.909	7.855	1.00	
ATOM	301		ASP			57.886	43.076 42.769	7.546	1.00	20.00
MOTA	302	OD1	ASP		-	57.452	42.769	6.352 8.545	1.00	
MOTA	304	N	ALA			61.366	46.044	6.842		20.00
ATOM	305	CA	ALA			62.230	47.173	7.161		20.00
ATOM	306	C	ALA			61.483	48.457	6.814	1.00	20.00
ATOM	307	0	ALA			60.631	48.480	5.902	1.00	20.00
ATOM	308	CB	ALA			63.507	47.092	6.332	1.00	20.00
ATOM	310	N	ALA			61.774	49.522	7.546	1.00	
ATOM	311	CA	ALA			61.205	50.818	7.189		20.00
ATOM	312	C	ALA			62.439	51.427	6.518		20.00
ATOM	313	0	ALA			63.529	50.919	6.771	1.00	20.00
ATOM	314	CB	ALA			60.812	51.581	8.418		20.00
ATOM	316	N	ILE			62.300	52.470	5.685		20.00
ATOM	317	CA	ILE			63.436	53.072	4.960		20.00
ATOM	318	C	ILE			63.501	54.570	5.142		20.00
ATOM	319	0			854	62.478	55.156	5.413	1.00	20.00
ATOM	320	CB	ILE	A	854	63.313	52.777	3.457	1.00	20.00
ATOM	321	CG1	ILE	A	854	63.527	51.284	3.195	1.00	20.00
ATOM	322	CG2	ILE	A	854	64.353	53.554	2.664	1.00	20.00
ATOM	323	CD1	ILE	Α	854	64.906	50.722	3.717	1.00	20.00
ATOM	325	N	LYS	А	855	64.699	55.189	5.023	1.00	20.00
ATOM	326	CA	LYS	A	855	64.901	56.684	5.158	1.00	20.00
ATOM	327	c',	LYS	A	855	65.800	57.286	4.079	1.00	20.00
MOTA	328	0	LYS	A	855	65.740	56.867	2.946	1.00	20.00
MOTA	329	CB	LYS	Α	855	65.417	57.088	6.580	1.00	20.00
ATOM	330	CG	LYS	A	855	66.949	57.267	6.792	1.00	20.00
MOTA	331	CD	LYS	A	855	67.333	57.776	8.262	1.00	20.00
ATOM	332	CE	LYS	A	855	68.597	57.022	8.917	1.00	20.00
MOTA	333	NZ	LYS	A	855	69.828	57.804	9.506	1.00	20.00
ATOM	338	N	ARG	А	856	66.573	58.311	4.439		20.00
ATOM	339	CA	ARG			67.569	59.035	3.573		20.00
ATOM	340	C	ARG	А	856	66.957	60.199	2.856		20.00
ATOM	341	0	ARG	A	856	66.375	60.027	1.793		20.00
MOTA	342	CB	ARG	A	856	68.288	58.135	2.533		20.00
ATOM	343	CG	ARG	A	856	69.278	58.948	1.706		20.00
ATOM	344	CD	ARG	A	856	68.965	58.943	0.179	1.00	20.00

345 NE ARG A 856 68.880 60.276 -0.435 1.00 20.00 347 NHI ARG A 856 68.623 60.497 -1.732 1.00 20.00 347 NHI ARG A 856 68.623 60.497 -1.732 1.00 20.00 347 NHI ARG A 856 68.555 61.750 -2.204 1.00 20.00 355 N MET A 857 67.166 61.381 3.446 1.00 20.00 355 N MET A 857 66.581 62.674 2.991 1.00 20.00 356 CA MET A 857 66.581 62.674 2.991 1.00 20.00 358 O MET A 857 66.581 62.674 2.991 1.00 20.00 358 O MET A 857 65.662 63.220 4.125 1.00 20.00 358 O MET A 857 65.662 63.220 4.125 1.00 20.00 356 CG MET A 857 65.662 63.220 4.125 1.00 20.00 361 SD MET A 857 66.281 63.699 3.730 1.00 20.00 361 SD MET A 857 62.819 63.037 4.735 1.00 20.00 361 SD MET A 857 62.819 63.037 4.735 1.00 20.00 363 OXT MET A 857 67.199 64.316 1.383 1.00 20.00 366 CA ASP A 864 77.202 66.313 -0.527 1.00 20.00 367 C ASP A 864 77.838 67.381 1.394 1.00 20.00 367 C ASP A 864 77.838 67.381 1.394 1.00 20.00 367 C ASP A 864 78.591 68.418 -0.580 1.00 20.00 373 N ASP A 865 78.090 68.727 1.00 20.00 374 CA ASP A 865 78.090 68.727 0.620 1.00 20.00 375 C ASP A 865 78.894 69.9760 1.436 1.00 20.00 375 C ASP A 865 78.894 70.418 3.695 1.00 20.00 375 C ASP A 865 78.894 70.418 3.695 1.00 20.00 377 CB ASP A 865 78.894 70.418 3.695 1.00 20.00 378 N HIS A 866 76.233 69.807 4.364 1.00 20.00 379 N HIS A 866 76.233 69.807 4.364 1.00 20.00 380 CA HIS A 866 76.233 69.807 4.364 1.00 20.00 381 C HIS A 866 76.233 69.807 4.364 1.00 20.00 384 CG HIS A 866 76.423 69.807 4.364 1.00 20.00 384 CG HIS A 866 76.423 68.054 2.140 1.00 20.00 387 CEI HIS A 866 76.423 68.054 2.140 1.00 20.00 387 CEI HIS A 866 76.469 65.577 68.227 5.193 1.00 20.00 387 CEI HIS A 866 76.469 65.577 68.227 5.193 1.00 20.00 387 CEI HIS A 866 76.469 65.577 7.52 65.919 4.933 1.00 20.00 387 CEI HIS A 866 76.469 66.344 2.955 1.00 20.00 387 CEI HIS A 866 76.469 66.344 2.955 1.00 20.00 387 CEI HIS A 866 76.469 66.344 2.955 1.00 20.00 387 CEI HIS A 866 76.469 66.344 2.955 1.00 20.00 387 CEI HIS A 866 76.469 66.344 2.955 1.00 20.00 387 CEI HIS A 866 76.469 66.344 2.951 1.00 20.00 399 CE ARG A 867 76.481 67.523 66.314 2.001 1.00 20. ATOM MOTA MOTA MOTA MOTA ATOM MOTA MOTA MOTA MOTA MOTA MOTA ATOM ATOM MOTA MOTA ATOM MOTA MOTA MOTA MOTA ATOM MOTA ATOM MOTA ATOM ATOM MOTA ATOM ATOM ATOM MOTA ATOM MOTA ATOM MOTA MOTA MOTA ATOM MOTA MOTA ATOM MOTA MOTA 77.304 65.205 6.345 1.00 20.00 409 N ASP A 868 MOTA 78.197 64.729 7.417 1.00 20.00 410 CA ASP A 868 MOTA 77.784 63.290 7.881 1.00 20.00 411 C ASP A 868 ATOM 412 O ASP A 868 413 CB ASP A 868 414 CG ASP A 868 ASP A 868 ASP A 868 ASP A 868 77.720 62.981 9.089 1.00 20.00 ATOM 78.199 65.733 8.593 1.00 20.00 ATOM 77.414 65.248 9.815 1.00 20.00 ATOM 9.611 1.00 20.00 76.266 64.747 415 OD1 ASP A 868 ATOM

 416
 OD2
 ASP A 868
 77.931
 65.385
 10.971
 1.00
 20.00

 418
 N
 PHE A 869
 77.560
 62.391
 6.921
 1.00
 20.00

 419
 CA
 PHE A 869
 77.119
 61.033
 7.261
 1.00
 20.00

 420
 C
 PHE A 869
 78.080
 59.895
 6.841
 1.00
 20.00

 421
 O
 PHE A 869
 78.526
 59.819
 5.663
 1.00
 20.00

 422
 CB
 PHE A 869
 75.738
 60.806
 6.625
 1.00
 20.00

 77.931 65.385 10.971 1.00 20.00 416 OD2 ASP A 868 ATOM MOTA MOTA 420 C ATOM 421 0 MOTA ATOM

ATOM	423	CG	DUT	Δ	869	75.685	61.221	5.199	1 00	20.00
	424	CD1			869	75.561	62.560			
ATOM								4.861		20.00
ATOM	425	CD2	PHE			75.848	60.286	4.190		20.00
ATOM	426	CEl	PHE			75.612	62.955	3.509	1.00	20.00
ATOM	427	CE2			869	75.896	60.680	2.838	1.00	
ATOM	428	CZ	PHE	A	869	75.779	62.022	2.496	1.00	20.00
ATOM	430	N	ALA	A	870	78.350	59.018	7.812	1.00	20.00
ATOM	431	CA	ALA	Ą	870	79.231	57.831	7.715	1.00	20.00
ATOM	432	C	ALA	A	870	79.352	57.560	9.172	1.00	20.00
ATOM	433	0	ALA	A	870	78.350	57.359	9.840	1.00	20.00
ATOM	434	CB	ALA	Α	870	80.624	58.132	7.160	1.00	20.00
ATOM	436	N	GLY	Α	871	80.558	57.601	9.698	1.00	20.00
ATOM	437	CA	GLY			80.674	57.344	11.112	1.00	20.00
ATOM	438	C	GLY			79.343	57.592	11.791	1.00	20.00
ATOM	439	0	GLY			78.672	56.648	12.170	1.00	20.00
ATOM	441	N	GLU			78.958	58.864	11.901	1.00	
		CA	GLU				59.258			
ATOM	442					77.690		12.529		20.00
MOTA	443	C	GLU			76.698	58.115	12.297		20.00
ATOM	444	0	GLU			76.096	57.579	13.241	1.00	20.00
ATOM	445	CB	GLU			77.178	60.602	11.939	1.00	20.00
ATOM	446	CG	GLU	A	872	76.581	60.552	10.530	1.00	20.00
ATOM	447	CD	GLU	A	872	75.027	60.750	10.507	1.00	20.00
ATOM	448	OE1	GLU	Α	872	74.433	60.770	9.383	1.00	20.00
ATOM	449	OE2	GLU	Α	872	74.405	60.881	11.596	1.00	20.00
MOTA	451	N	LEU	A	873	76.545	57.753	11.028	1.00	20.00
ATOM	452	CA	LEU	Α	873	75.726	56.633	10.649	1.00	20.00
ATOM	453	C	LEU	A	873	76.593	55.505	11.273	1.00	20.00
ATOM	454	0	LEU			76.715	55.463	12.500		20.00
ATOM	455	CB	LEU			75.658	56.527	9.101		20.00
ATOM	457	N	GLU			77.195	54.620	10.458	1.00	20.00
ATOM	458	CA	GLU			78.069	53.539	10.436		20.00
		C								20.00
ATOM	459		GLU			77.903	53.535	12.468		
ATOM	460	0	GLU			76.948	52.968	12.998		20.00
ATOM	461	CB	GLU			79.526	53.831	10.639		20.00
ATOM	463	N	VAL			78.838	54.222	13.116		20.00
ATOM	464	CA	VAL			78.847	54.419	14.567		20.00
ATOM	465	C	VAL	A	875	77.770	53.658	15.342	1.00	20.00
MOTA	466	0	VAL	A	875	78.065	52.892	16.266	1.00	20.00
ATOM	467	CB	VAL	Α	875	78.756	55.961	14.897	1.00	20.00
ATOM	469	N	LEU	Α	876	76.520	53.887	14.966	1.00	20.00
ATOM	470	CA	LEU	A	876	75.408	53.237	15.630	1.00	20.00
ATOM	471	C	LEU	Α	876	75.957	51.873	16.004	1.00	20.00
ATOM	472	Ø	LEU			75.727	51.387	17.126		20.00
ATOM	473	CB	LEU			74.208	53.192	14.684		20.00
ATOM	474	CG	LEU			73.839	54.662	14.399		20.00
	475		LEU			73.193	54.792	13.056		20.00
ATOM			LEU							20.00
ATOM	476					72.942	55.198	15.481		
ATOM	478	N	CYS			76.744	51.320	15.071		20.00
ATOM	479	CA	CYS			77.459	50.027	15.212		20.00
MOTA	480	С	CYS			77.658	49.645	16.685		20.00
MOTA	481	0	CYS			77.099	48.656	17.205		20.00
MOTA	482	CB	CYS			78.855	50.137	14.546	1.00	20.00
MOTA	483	SG	CYS	Α	877	79.630	51.894	14.438	1.00	20.00
ATOM	485	N	LYS	A	878	78.447	50.496	17.337	1.00	20.00
ATOM	486	CA	LYS			78.789	50.363	18.762	1.00	20.00
ATOM	487	C	LYS			77.629	49.811	19.612		20.00
ATOM	488	0	LYS			77.847	49.438	20.805		20.00
		-		- •	- · -					

ATOM	489		7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	70			
				79.260			1.00 20.00
ATOM	49(80.718		_	
ATOM	491			81.321	52.986	20.114	1.00 20.00
ATOM	492			81.612		19.609	1.00 20.00
ATOM	493			81.754		18.098	1.00 20.00
ATOM	498		LEU A 879	76.427	49.792	19.000	
ATOM	499	CA		75.203	49.320		
ATOM	500	C	LEU A 879	74.179	49.039		
MOTA	501	. 0	LEU A 879	73.068	49.544		
MOTA	502	CB	LEU A 879	74.620		20.651	
ATOM	503	CG	LEU A 879	74.799		20.603	
ATOM	504	CD	1 LEU A 879	75.966		21.461	
MOTA	505			75.015		19.200	1.00 20.00
ATOM	507	N	GLY A 880	74.546		17.597	
ATOM	508	CA		73.551		16.578	
ATOM	509		GLY A 880	72.345		17.330	1.00 20.00
ATOM	510	0	GLY A 880	71.296			1.00 20.00
ATOM	512	N	HIS A 881	72.545		17.464	1.00 20.00
ATOM	513	CA	HIS A 881		46.101	17.820	1.00 20.00
ATOM	514	C	HIS A 881	71.575	45.353	18.572	1.00 20.00
ATOM	515	0	HIS A 881	71.402	46.024	19.917	1.00 20.00
ATOM	516	CB		71.758	47.183	20.106	1.00 20.00
ATOM	517	CG	HIS A 881	72.059	43.906	18.744	1.00 20.00
ATOM			HIS A 881	71.015	42.958	19.255	1.00 20.00
ATOM	518		1 HIS A 881	69.952	42.520	18.485	1.00 20.00
ATOM	519	CD2		70.877	42.349	20.464	1.00 20.00
	520		L HIS A 881	69.207	41.691	19.197	1.00 20.00
ATOM	521	NE		69.746	41.566	20.402	1.00 20.00
ATOM	525	N	HIS A 882	70.870	45.217	20.817	1.00 20.00
ATOM	526	CA	HIS A 882	70.420	45.429	22.177	1.00 20.00
ATOM	527	C	HIS A 882	68.935	45.241	21.763	1.00 20.00
ATOM	528	0	HIS A 882	68.440	45.758	20.724	1.00 20.00
MOTA	529	CB	HIS A 882	70.704	46.804	22.806	1.00 20.00
ATOM	530	CG	HIS A 882	70.491	46.812	24.295	1.00 20.00
ATOM	531	NDl	HIS A 882	69.252	46.654	24.868	1.00 20.00
ATOM	532	CD2	HIS A 882	71.365	46.839	25.325	1.00 20.00
MOTA	533	CE1	HIS A 882	69.373	46.579	26.183	1.00 20.00
MOTA	534	NE2	HIS A 882	70.645	46.686	26.486	1.00 20.00
ATOM	538	N	PRO A 883	68.210	44.463	22.547	1.00 20.00
ATOM	539	CA	PRO A 883	66.820	44.253	22.152	1.00 20.00
ATOM	540	C	PRO A 883	66.019	45.510	22.212	1.00 20.00
ATOM	541	Q	PRO A 883		45.685		
ATOM	542	CB	PRO A 883		43.176	23.108	1.00 20.00
ATOM	543	C G	PRO A 883		43.129		1.00 20.00
ATOM	544	CD	PRO A 883		43.829		1.00 20.00
ATOM	545	N	ASN A 884	66.414	46.408		
ATOM	546	CA	ASN A 884	65.710	47.650	23.098	1.00 20.00
ATOM	547	C	ASN A 884	66.169		23.263	1.00 20.00
ATOM	548	0	ASN A 884		48.856	22.439	1.00 20.00
ATOM	549		ASN A 884	65.801	49.977	22.723	1.00 20.00
ATOM	550	CB		65.672	47.898	24.749	1.00 20.00
ATOM		CG	ASN A 884	65.444	46.594	25.498	1.00 20.00
ATOM	551		ASN A 884	65.835	46.388	26.649	1.00 20.00
	552		ASN A 884	64.817	45.687	24.802	1.00 20.00
	. 556	N	ILE A 885	66.917	48.603	21.375	1.00 20.00
ATOM	557	CA	ILE A 885	67.391	49.655	20.482	1.00 20.00
ATOM	558	C	ILE A 885	67.205	49.202	19.020	1.00 20.00
ATOM	559	0	ILE A 885	67.847	48.251	18.589	1.00 20.00
ATOM	560	CB	ILE A 885	68.930	50.021	20.761	1.00 20.00

MOTA	561	CG1			885	69.032	50.962	21.954		20.00
MOTA	562	CG2	ILE	A	885	69.529	50.830	19.639	1.00	20.00
ATOM	563	CD1	ILE	A	885	70.397	51.213	22.385	1.00	20.00
ATOM	565	N	ILE	Α	886	66.325	49.886	18.282	1.00	20.00
ATOM	566	CA			886	66.030	49.608	16.871	1.00	20.00
					886					
ATOM	567	C				67.338	49.271	16.206	1.00	20.00
MOTA	568	0	ILE		886	68.363	49.491	16.788	1.00	20.00
MOTA	569	CB	ILE	A	886	65.331	50.854	16.183	1.00	20.00
MOTA	570	CG1	ILE	Α	886	63.806	50.758	16.349	1.00	20.00
MOTA	571	CG2	ILE	A	886	65.568	50.868	14.691	1.00	20.00
MOTA	572	CD1	ILE	A	886	63.134	49.624	15.492	1.00	20.00
ATOM	574	N			887	67.347	48.757	14.990	1.00	
ATOM	575	CA	ASN		887	68.628	48.381	14.442		20.00
		CA								
MOTA	576		ASN			68.846	48.692	13.013	1.00	20.00
ATOM	577	0			887	67.889	48.902	12.273		20.00
ATOM	578	CB	ASN	Α	887	68.827	46.892 '	14.597	1.00	20.00
ATOM	579	CG	ASN	Α	887	70.276	46.512	14.731	1.00	20.00
ATOM	580	OD1	ASN	Α	887	71.015	46.382	13.725	1.00	20.00
ATOM	581	ND2	ASN	Α	887	70.702	46.315	15.979	1.00	20.00
ATOM	585	N	LEU			70.118	48.684	12.604	1.00	20.00
	586		LEU			70.417		11.203		20.00
ATOM		CA					48.950		1.00	
ATOM	587	C	LEU			70.410	47.641	10.469	1.00	
MOTA	588	0	LEU	A	888	71.128	46.705	10.852	1.00	20.00
ATOM	589	CB	LEU	A	888	71.799	49.586	11.000	1.00	20.00
ATOM	590	CG	LEU	A	888	72.125	49.333	9.517	1.00	20.00
MOTA	591	CD1	LEU	A	888	71.290	50.292	8.712	1.00	20.00
ATOM	592	CD2	LEU			73.594	49.451	9.207	1.00	20.00
ATOM	594	N	LEU			69.617	47.531	9.425	1.00	
MOTA	595	CA	LEU			69.676	46.284	8.712		20.00
MOTA	596	C	LEU			70.630	46.494	7.567	1.00	20.00
ATOM	597	0	LEU			71.830	46.369	7.746	1.00	20.00
MOTA	598	CB	LEU	Α	889	68.310	45.906	8.247	1.00	20.00
MOTA	599	CG	LEU	A	889	67.451	45.554	9.465	1.00	20.00
ATOM	600	CD1	LEU	A	889	66.321	44.719	8.913	1.00	20.00
ATOM	601	CD2	LEU			68.201	44.811	10.568		20.00
ATOM	603	N	GLY			70.114	46.838	6.396	1.00	20.00
								5.254		
ATOM	604	CA	GLY			70.971	47.127			20.00
ATOM	605	C	GLY			71.310	48.613	5.048		20.00
ATOM	606	0	GLY	A	890	71.237	49.441	5.951	1.00	20.00
ATOM	608	N	ALA	A	891	71.684	48.930	3.819	1.00	20.00
ATOM	609	CA	ALA	A	891	72.084	50.262	3.393	1.00	20.00
ATOM	610	С	ALA	A	891	72.437	50.082	1.907	1.00	20.00
ATOM	611	0*	ALA			72.299	48.965	1.361		20.00
							50.706	4.166		20.00
ATOM	612	CB	ALA			73.296				
MOTA	614	N	CYS			72.908	51.153	1.262		20.00
ATOM	615	CA	CYS			73.258	51.085	-0.166		20.00
ATOM	616	C	CYS	A	892	73.174	52.468	-0.776	1.00	20.00
ATOM	617	0	CYS	Α	892	72.263	53.232	-0.453	1.00	20.00
MOTA	618	CB	CYS	A	892	72.277	50.171	-0.952	1.00	20.00
ATOM	619	SG	CYS			72.953	48.465	-1.345		20.00
			GLU			74.089	52.785	-1.680		20.00
ATOM	621	N								
MOTA	622	CA	GLU			74:062	54.101	-2.298		20.00
MOTA	623	С	GLU			73.386	54.004	-3.637		20.00
ATOM	624	0	GLU	A	893	73.956	53.509	-4.616		20.00
ATOM	625	CB	GLU	A	893	75.483	54.655	-2.463	1.00	20.00
MOTA	626	CG	GLU			76.613	53.751	-1.900	1.00	20.00
ATOM	627	CD	GLU			77.227	52.860	-2.966		20.00
	J '									

7 COM	630	0.77						
ATOM	628		1 GLU A 8		76.831	52.998		
ATOM	629				78.105	52.033	-2.612	1.00 20.00
MOTA	631		HIS A 8		72.140	54.427	-3.684	1.00 20.00
ATOM	632	CA	HIS A 8		71.437	54.382	-4.949	1.00 20.00
MOTA	633	C	HIS A 8	194	71.690	55.786	-5.419	1.00 20.00
ATOM	634	0	HIS A 8		71.305	56.755	-4.750	1.00 20.00
ATOM	635	CB	HIS A 8	94	69.937	54.149	-4.753	1.00 20.00
MOTA	636	CG	HIS A 8	94	69.133	54.328	-6.003	1.00 20.00
ATOM	637	ND:	1 HIS A 8	94	67.767	54.494	-5.990	1.00 20.00
ATOM	638	CD:	2 HIS A 8	94	69.510	54.413	-7.301	1.00 20.00
ATOM	639	CE:	L HIS A 8	94	67.332	54.680	-7.223	1.00 20.00
ATOM	640	NE:	HIS A 8	94	68.369	54.634	-8.037	1.00 20.00
ATOM	644	N	ARG A 8	95	72.366	55.873	-6.556	1.00 20.00
ATOM	645	CA	ARG A 8		72.768	57.132	-7.151	1.00 20.00
MOTA	646	С	ARG A 8		71.873	58.311	-6.767	1.00 20.00
ATOM	647	0	ARG A 8		70.654	58.317	-7.001	1.00 20.00
ATOM	648	CB	ARG A 8		72.910	56.904	-8.643	1.00 20.00
ATOM	649	CG	ARG A 8		73.918	55.775	-8.856	1.00 20.00
ATOM	650	CD	ARG A 8		73.482	54.825	-0.030 -9.910	1.00 20.00
ATOM	651	NE	ARG A 8		74.001		-9.910	1.00 20.00
ATOM	652	CZ	ARG A 8					
MOTA	653	NH1			73.609		-12.370	1.00 20.00
ATOM	654				72.657		-12.469	1.00 20.00
		NH2			74.183		-13.460	1.00 20.00
ATOM ATOM	661	N	GLY A 89		72.510	59.315	-6.177	1.00 20.00
ATOM	662	CA	GLY A 89		71.781	60.441	-5.654	1.00 20.00
	663	C	GLY A 89		71.963	60.040	-4.207	1.00 20.00
ATOM	664	0	GLY A 89		72.194	58.860	-3.967	1.00 20.00
ATOM	666	N	TYR A 89		71.919	60.962	-3.254	1.00 20.00
ATOM	667	CA	TYR A 89		72.066	60.604	-1.839	1.00 20.00
ATOM ATOM	668	C	TYR A 89		71.643	59.133	-1.531	1.00 20.00
	669	0	TYR A 89		70.959	58.507	-2.336	1.00 20.00
ATOM ATOM	670	CB	TYR A 89		71.195	61.548	-1.039	1.00 20.00
	671	CG	TYR A 89		71.828	62.224	0.128	1.00 20.00
ATOM	672	CD1			73.097	62.810	0.030	1.00 20.00
ATOM	673	CD2	TYR A 89		71.116	62.358	1.321	1.00 20.00
ATOM	674	CE1	TYR A 89		73.638	63.526	1.108	1.00 20.00
ATOM	675	CE2	TYR A 89		71.641	63.069	2.402	1.00 20.00
ATOM	676	CZ	TYR A 89		72.894	63.650	2.290	1.00 20.00
ATOM	677	OH	TYR A 89		73.381	64.361	3.369	1.00 20.00
ATOM	680	N	LEU A 89		72.001	58.564	-0.369	1.00 20.00
ATOM	681	ĊĄ	LEU A 89		71.571	57.163	-0.196	1.00 20.00
ATOM	682	C	LEU A 89			56.437	1.099	1.00 20.00
MOTA	683 ·	,	LEU A 89			56.483	2.161	1.00 20.00
ATOM	684	CB'	LEU A 89		72.542	56.240	-0.990	1.00 20.00
ATOM	686	N	TYR A 89	9	70.041	55.704	0.830	1.00 20.00
MOTA	687	CA	TYR A 89		69.162	54.833	1.624	1.00 20.00
ATOM	688	C	TYR A 89	9	69.544	53.804	2.665	1.00 20.00
MOTA	689	0	TYR A 89	9	70.411	52.969	2.445	1.00 20.00
ATOM	690	CB	TYR A 89	9	68.268	54.076	0.657	1.00 20.00
ATCM	691	CG	TYR A 89		67.523	54.943	-0.339	1.00 20.00
ATOM	692	CD1	TYR A 89	9	68.208	55.776	-1.209	1.00 20.00
ATOM	693	CD2	TYR A 89		66.163	54.790	-0.522	1.00 20.00
ATOM	694	CEl	TYR A 89	9	67.574	56.407	-2.238	1.00 20.00
ATOM	695	CE2	TYR A 89	9	65.514	55.429	-1.564	1.00 20.00
ATOM	696	CZ	TYR A 89	9	66.225	56.235	-2.431	1.00 20.00
ATOM	697	OH	TYR A 89	9	65.602	56.841	-3.510	1.00 20.00
MOTA	700	N	LEU A 90	0	68.814	53.814	3.775	1.00 20.00

PCT/US01/08853

ATOM 701 CA LEU A 900 69.047 52.841 4.845 1.00 20.00 ATOM 702 C LEU A 900 67.805 51.988 5.149 1.00 20.00 ATOM 703 O LEU A 900 66.645 52.459 5.109 1.00 20.00 ATOM 705 CG LEU A 900 70.810 54.184 6.259 1.00 20.00 ATOM 705 CG LEU A 900 70.810 54.184 6.259 1.00 20.00 ATOM 706 CD1 LEU A 900 70.624 55.498 7.033 1.00 20.00 ATOM 707 CD2 LEU A 900 70.624 55.498 7.033 1.00 20.00 ATOM 709 N ALA A 901 66.083 50.739 5.495 1.00 20.00 ATOM 711 C ALA A 901 67.043 49.813 5.811 1.00 20.00 ATOM 711 C ALA A 901 67.043 49.813 5.811 1.00 20.00 ATOM 712 C ALA A 901 67.113 49.495 7.675 1.00 20.00 ATOM 713 CB ALA A 901 67.124 48.564 5.003 1.00 20.00 ATOM 715 N LEA 902 66.310 50.058 9.513 1.00 20.00 ATOM 716 CA LLE A 902 66.310 50.058 9.513 1.00 20.00 ATOM 717 C LLE A 902 66.310 50.058 9.513 1.00 20.00 ATOM 717 C LLE A 902 66.310 50.058 9.513 1.00 20.00 ATOM 719 CB LLE A 902 66.310 50.058 9.513 1.00 20.00 ATOM 719 CB LLE A 902 66.310 50.058 9.513 1.00 20.00 ATOM 719 CB LLE A 902 66.306 1.00 20.00 ATOM 720 CG1 LLE A 902 66.307 50.058 9.513 1.00 20.00 ATOM 721 CG2 LLE A 902 66.308 51.006 11.556 1.00 20.00 ATOM 721 CG2 LLE A 902 66.308 51.006 11.556 1.00 20.00 ATOM 721 CG2 LLE A 902 66.308 51.006 11.556 1.00 20.00 ATOM 722 CG1 LLE A 902 66.308 51.006 11.556 1.00 20.00 ATOM 721 CG2 LLE A 902 66.308 51.006 11.556 1.00 20.00 ATOM 722 CD1 LLE A 903 62.997 47.870 11.692 1.00 20.00 ATOM 724 N GLU A 903 62.997 47.870 11.692 1.00 20.00 ATOM 725 CA GLU A 903 62.997 47.870 11.692 1.00 20.00 ATOM 726 C GLU A 903 62.997 47.870 11.692 1.00 20.00 ATOM 727 C GG LLU A 903 64.471 45.766 15.006 1.00 20.00 ATOM 728 CB GLU A 903 64.471 45.766 15.006 1.00 20.00 ATOM 729 CG GLU A 903 64.471 45.766 15.006 1.00 20.00 ATOM 730 CD GLU A 903 64.471 45.766 15.006 1.00 20.00 ATOM 731 CB LG LU A 903 65.369 46.993 12.466 1.00 20.00 ATOM 732 CC2 GLU A 903 65.369 46.993 12.466 1.00 20.00 ATOM 734 C CG LLU A 903 65.369 46.993 12.466 1.00 20.00 ATOM 735 CA TYR A 904 60.054 44.885 1.00 20.00 ATOM 736 C TYR A 904 65.995 48.183 1.00 20.00 ATOM 737 C CR LLU A 903 65.995 47.328 1											
ATOM	ATOM	701	CA	LEU	A	900	69.047	52.841	4.845		
ATOM 704 CB LEU A 900 69.455 53.522 6.147 1.00 20.00 ATOM 705 CG LEU A 900 70.624 55.498 6.259 1.00 20.00 ATOM 707 CD2 LEU A 900 70.624 55.498 7.033 1.00 20.00 ATOM 707 CD2 LEU A 901 70.624 55.498 7.033 1.00 20.00 ATOM 707 N ALA A 901 68.083 50.739 5.495 1.00 20.00 ATOM 710 CA ALA A 901 67.043 49.813 5.811 1.00 20.00 ATOM 711 C ALA A 901 67.043 49.813 5.811 1.00 20.00 ATOM 712 O ALA A 901 67.021 48.554 5.201 1.00 20.00 ATOM 712 O ALA A 901 67.021 48.554 5.201 1.00 20.00 ATOM 713 CB ALA A 901 67.221 48.554 5.003 1.00 20.00 ATOM 715 N ILE A 902 66.372 50.058 9.513 1.00 20.00 ATOM 716 CA ILE A 902 66.372 50.058 9.513 1.00 20.00 ATOM 717 C ILE A 902 66.310 50.058 9.513 1.00 20.00 ATOM 718 O ILE A 902 65.367 48.888 9.812 1.00 20.00 ATOM 719 CB ILE A 902 65.861 51.315 10.167 1.00 20.00 ATOM 719 CB ILE A 902 65.308 15.15 10.167 1.00 20.00 ATOM 720 CB ILE A 902 65.308 15.301 10.058 1.00 20.00 ATOM 720 CB ILE A 902 65.308 15.301 10.058 1.00 20.00 ATOM 721 CG ILE A 902 65.308 15.301 10.058 1.00 20.00 ATOM 720 CB ILE A 902 65.308 15.301 10.058 1.00 20.00 ATOM 720 CB ILE A 902 65.308 15.301 10.058 1.00 20.00 ATOM 721 CG ILE A 902 65.308 15.301 10.058 1.00 20.00 ATOM 721 CB ILE A 902 65.308 15.301 10.058 1.00 20.00 ATOM 722 CD ILE A 902 65.308 15.301 10.058 1.00 20.00 ATOM 724 N GLU A 903 66.322 48.439 11.205 1.00 20.00 ATOM 725 CB GLU A 903 66.435 47.350 11.465 1.00 20.00 ATOM 726 CB GLU A 903 66.497 48.605 11.556 1.00 20.00 ATOM 726 CB GLU A 903 62.797 47.870 11.692 1.00 20.00 ATOM 726 CB GLU A 903 62.797 47.870 11.692 1.00 20.00 ATOM 728 CB GLU A 903 62.797 47.870 11.692 1.00 20.00 ATOM 720 CB GLU A 903 62.793 46.793 10.00 20.00 ATOM 720 CB GLU A 903 62.793 40.793 10.00 20.00 ATOM 731 CB ILU A 903 62.793 48.559 12.662 1.00 20.00 ATOM 731 CB ILU A 903 65.365 46.509 15.425 1.00 20.00 ATOM 732 CB GLU A 903 65.365 46.509 15.425 1.00 20.00 ATOM 733 CB GLU A 903 65.365 46.509 15.425 1.00 20.00 ATOM 731 CB ILU A 903 65.365 46.509 15.425 1.00 20.00 ATOM 732 CB ILU A 903 65.365 46.509 15.425 1.00 20.00 ATOM 733 CB ILU A 903 65.36	ATOM	702	C	LEU	Α	900		51.988	5.149	1.00	20.00
ATOM 705 CG LEU A 900	ATOM	703	0	LEU	Α	900	66.645	52.459	5.109	1.00	20.00
ATOM 706 CD1 LEU A 900 71.404 54.368 4.864 1.00 20.00 ATOM 707 CD2 LEU A 900 70.624 55.498 7.033 1.00 20.00 ATOM 709 N ALA A 901 68.083 50.739 5.495 1.00 20.00 ATOM 710 CA ALA A 901 67.043 49.813 5.811 1.00 20.00 ATOM 711 C ALA A 901 67.043 49.813 5.811 1.00 20.00 ATOM 712 O ALA A 901 67.828 48.577 7.670 1.00 20.00 ATOM 712 O ALA A 901 67.828 48.577 7.670 1.00 20.00 ATOM 713 CE ALA A 901 67.828 48.577 7.670 1.00 20.00 ATOM 713 CE ALA A 901 67.828 48.577 7.670 1.00 20.00 ATOM 715 N ILE A 902 66.372 50.260 8.078 1.00 20.00 ATOM 716 CA ILE A 902 66.370 50.058 9.513 1.00 20.00 ATOM 717 C ILE A 902 66.310 50.058 9.513 1.00 20.00 ATOM 718 O ILE A 902 66.367 48.888 9.812 1.00 20.00 ATOM 718 O ILE A 902 66.882 52.998 10.058 1.00 20.00 ATOM 720 CG1 ILE A 902 66.882 52.998 10.058 1.00 20.00 ATOM 721 CG2 ILE A 902 66.882 52.998 10.058 1.00 20.00 ATOM 722 CD1 ILE A 902 67.878 52.583 11.280 1.00 20.00 ATOM 722 CD1 ILE A 902 67.878 52.583 11.280 1.00 20.00 ATOM 724 N GLU A 903 66.392 48.439 11.057 1.00 20.00 ATOM 725 CA GLU A 903 66.495 47.50 11.692 1.00 20.00 ATOM 726 C GLU A 903 66.495 47.50 11.692 1.00 20.00 ATOM 727 O GLU A 903 64.471 45.750 11.692 1.00 20.00 ATOM 728 CB GLU A 903 64.471 45.766 15.00 20.00 ATOM 720 CG GLU A 903 64.471 45.766 15.00 20.00 ATOM 730 CD GLU A 903 64.471 45.766 15.00 20.00 ATOM 730 CD GLU A 903 64.471 45.766 15.00 20.00 ATOM 730 CD GLU A 903 64.471 45.766 15.00 20.00 ATOM 730 CD GLU A 903 64.471 45.766 15.00 20.00 ATOM 730 CD GLU A 903 63.971 44.875 15.725 1.00 20.00 ATOM 730 CD GLU A 903 64.973 46.703 12.746 1.00 20.00 ATOM 730 CD GLU A 903 63.971 44.875 15.725 1.00 20.00 ATOM 730 CD GLU A 903 63.971 44.875 15.725 1.00 20.00 ATOM 730 CD GLU A 903 65.565 46.871 45.756 15.00 20.00 ATOM 730 CD GLU A 903 65.565 46.871 45.756 15.00 20.00 ATOM 730 CD GLU A 903 65.565 46.871 45.756 10.00 20.00 ATOM 730 CD GLU A 903 65.856 46.871 45.756 15.725 1.00 20.00 ATOM 731 CD TYR A 904 50.565 48.851 10.00 20.00 0.00 ATOM 732 CD GLU A 903 65.565 468 46.115 10.00 20.00 0.00 ATOM 730 CD TYR A 904 50.565 48.851 10	MOTA	704	CB	LEU	A	900	69.455	53.522	6.147	1.00	20.00
ATOM 707 CD2 LEU A 900 70.624 55.498 7.033 1.00 20.00 ATOM 709 N ALA A 901 67.043 49.813 5.811 1.00 20.00 ATOM 710 CA ALA A 901 67.043 49.813 5.811 1.00 20.00 ATOM 711 C ALA A 901 67.043 49.813 5.811 1.00 20.00 ATOM 712 C ALA A 901 67.113 49.495 7.275 1.00 20.00 ATOM 713 CB ALA A 901 67.221 48.564 5.003 1.00 20.00 ATOM 713 CB ALA A 901 67.221 48.564 5.003 1.00 20.00 ATOM 715 N LLE A 902 66.372 50.260 8.078 1.00 20.00 ATOM 716 CA LLE A 902 66.372 50.260 8.078 1.00 20.00 ATOM 717 C LLE A 902 66.310 50.058 9.513 1.00 20.00 ATOM 717 C LLE A 902 66.310 50.058 9.513 1.00 20.00 ATOM 719 CB LLE A 902 66.367 48.888 9.812 1.00 20.00 ATOM 719 CB LLE A 902 66.820 52.398 10.067 1.00 20.00 ATOM 719 CB LLE A 902 66.882 52.398 10.067 1.00 20.00 ATOM 720 CG1 LLE A 902 66.882 52.398 10.068 1.00 20.00 ATOM 721 CG2 LLE A 902 66.882 52.398 10.068 1.00 20.00 ATOM 722 CD1 LLE A 902 66.882 52.398 10.068 10.00 20.00 ATOM 725 CA GLU A 903 66.322 48.439 11.280 10.00 20.00 ATOM 725 CA GLU A 903 66.322 48.439 11.057 1.00 20.00 ATOM 726 C GLU A 903 66.4435 47.350 11.465 1.00 20.00 ATOM 727 O GLU A 903 62.713 48.559 12.662 1.00 20.00 ATOM 727 O GLU A 903 62.713 48.559 12.662 1.00 20.00 ATOM 728 CB GLU A 903 62.713 48.559 12.662 1.00 20.00 ATOM 729 CG GLU A 903 62.713 48.559 12.662 1.00 20.00 ATOM 730 CD GLU A 903 62.713 48.559 12.662 1.00 20.00 ATOM 730 CD GLU A 903 63.985 45.965 13.580 1.00 20.00 ATOM 730 CD GLU A 903 63.985 45.965 13.580 1.00 20.00 ATOM 730 CD GLU A 903 63.985 45.965 13.580 1.00 20.00 ATOM 730 CD GLU A 903 63.985 45.965 13.580 1.00 20.00 ATOM 730 CD GLU A 903 63.985 45.965 13.580 1.00 20.00 ATOM 730 CD GLU A 903 63.985 45.965 13.580 1.00 20.00 ATOM 730 CD GLU A 903 63.985 45.965 13.580 1.00 20.00 ATOM 730 CD GLU A 903 63.985 45.965 13.580 1.00 20.00 ATOM 730 CD GLU A 903 63.985 45.965 13.580 1.00 20.00 ATOM 730 CD GLU A 903 63.985 45.965 13.580 1.00 20.00 ATOM 730 CD GLU A 903 63.985 45.965 13.580 1.00 20.00 ATOM 730 CD GLU A 903 63.985 45.965 10.00 20.00 ATOM 730 CD GLU A 903 63.985 45.965 10.00 20.00 ATOM 730 CD GLU A 90	ATOM	705	CG				70.810	54.184	6.259	1.00	20.00
ATOM 709 N ALA A 901 68.083 50.739 5.495 1.00 20.00 ATOM 710 CA ALA A 901 67.043 49.813 5.811 1.00 20.00 ATOM 711 C ALA A 901 67.013 49.815 7.275 1.00 20.00 ATOM 712 O ALA A 901 67.828 48.577 7.670 1.00 20.00 ATOM 713 CB ALA A 901 67.828 48.577 7.670 1.00 20.00 ATOM 713 CB ALA A 901 67.828 48.577 7.670 1.00 20.00 ATOM 715 N ILE A 902 66.372 50.260 8.078 1.00 20.00 ATOM 716 CA ILE A 902 66.370 50.058 9.513 1.00 20.00 ATOM 717 C ILE A 902 66.370 50.058 9.513 1.00 20.00 ATOM 718 O ILE A 902 65.367 48.888 9.812 1.00 20.00 ATOM 719 CB ILE A 902 65.367 48.888 9.812 1.00 20.00 ATOM 719 CB ILE A 902 66.801 51.151 10.167 1.00 20.00 ATOM 719 CB ILE A 902 66.882 52.398 10.058 1.00 20.00 ATOM 720 CGI ILE A 902 66.882 52.398 10.058 1.00 20.00 ATOM 721 CGI ILE A 902 66.882 52.398 10.058 1.00 20.00 ATOM 721 CGI ILE A 902 66.882 52.398 10.058 1.00 20.00 ATOM 722 CDI ILE A 902 67.878 52.583 11.280 1.00 20.00 ATOM 724 N GUU A 903 66.322 48.439 11.057 1.00 20.00 ATOM 725 CA GUU A 903 66.397 47.870 11.692 1.00 20.00 ATOM 726 C GUU A 903 62.997 47.870 11.692 1.00 20.00 ATOM 727 O GUU A 903 62.997 47.870 11.692 1.00 20.00 ATOM 728 CB GUU A 903 64.973 46.703 12.746 1.00 20.00 ATOM 729 CG GUU A 903 64.973 46.703 12.746 1.00 20.00 ATOM 730 CD GUU A 903 63.985 45.965 13.580 10.00 20.00 ATOM 730 CD GUU A 903 63.985 45.965 13.580 10.00 20.00 ATOM 730 CD GUU A 903 63.985 45.965 13.580 10.00 20.00 ATOM 730 CD GUU A 903 64.973 46.703 12.746 1.00 20.00 ATOM 730 CD GUU A 903 65.355 46.509 15.425 10.00 20.00 ATOM 730 CD GUU A 903 65.355 46.509 15.425 10.00 20.00 ATOM 730 CD GUU A 903 65.355 46.509 15.425 10.00 20.00 ATOM 730 CD GUU A 903 65.355 46.509 15.425 10.00 20.00 ATOM 731 OEI GUU A 903 65.355 46.509 15.425 10.00 20.00 ATOM 732 CD GUU A 903 65.355 46.509 15.425 10.00 20.00 ATOM 730 CD GUU A 903 65.355 46.509 15.425 10.00 20.00 ATOM 730 CD GUU A 903 65.355 46.509 15.425 10.00 20.00 ATOM 730 CD GUU A 903 65.355 46.509 15.425 10.00 20.00 ATOM 730 CD GUU A 903 65.355 46.509 15.425 10.00 20.00 ATOM 735 CA TYR A 904 55.565 48.815 10.00 20.00 20	MOTA	706	CD1	LEU	A	900	71.404	54.368	4.864	1.00	20.00
ATOM 710 CA ALA A 901 67.043 49.813 5.811 1.00 20.00 ATOM 711 C ALA A 901 67.043 49.895 7.275 1.00 20.00 ATOM 712 O ALA A 901 67.828 48.577 7.670 1.00 20.00 ATOM 713 CB ALA A 901 67.828 48.577 7.670 1.00 20.00 ATOM 713 CB ALA A 901 67.221 48.564 5.003 1.00 20.00 ATOM 715 N ILE A 902 66.372 50.260 8.078 1.00 20.00 ATOM 716 CA ILE A 902 66.372 50.260 8.078 1.00 20.00 ATOM 717 C ILE A 902 66.310 50.058 9.513 1.00 20.00 ATOM 718 O ILE A 902 66.310 50.058 9.513 1.00 20.00 ATOM 719 CB ILE A 902 66.702 48.888 9.812 1.00 20.00 ATOM 719 CB ILE A 902 65.367 48.888 9.812 1.00 20.00 ATOM 719 CB ILE A 902 65.367 15.1515 10.167 1.00 20.00 ATOM 720 CGI ILE A 902 65.301 51.315 10.167 1.00 20.00 ATOM 721 CG2 ILE A 902 65.308 51.006 11.555 1.00 20.00 ATOM 722 CD1 ILE A 902 67.878 52.583 11.280 1.00 20.00 ATOM 722 CD1 ILE A 902 67.878 52.583 11.280 1.00 20.00 ATOM 725 CA GLU A 903 66.322 48.499 11.057 1.00 20.00 ATOM 726 C GLU A 903 66.924 47.870 11.692 1.00 20.00 ATOM 726 C GLU A 903 62.974 47.870 11.692 1.00 20.00 ATOM 728 CB GLU A 903 62.974 47.870 11.692 1.00 20.00 ATOM 728 CB GLU A 903 62.974 47.870 11.692 1.00 20.00 ATOM 728 CB GLU A 903 64.471 45.766 15.006 1.00 20.00 ATOM 730 CD GLU A 903 64.471 45.766 15.006 1.00 20.00 ATOM 730 CD GLU A 903 64.471 45.766 15.006 1.00 20.00 ATOM 730 CD GLU A 903 63.971 44.875 15.725 1.00 20.00 ATOM 731 OBI GLU A 903 63.971 44.875 15.725 1.00 20.00 ATOM 734 N TYR A 904 60.707 47.846 10.758 10.00 20.00 ATOM 735 CA TYR A 904 60.707 47.846 10.757 1.00 20.00 ATOM 736 C TYR A 904 59.985 47.328 11.989 1.00 20.00 ATOM 737 O TYR A 904 59.985 47.328 11.989 1.00 20.00 ATOM 736 C TYR A 904 59.985 47.328 11.989 1.00 20.00 ATOM 737 C TYR A 904 59.985 47.328 11.989 1.00 20.00 ATOM 737 C TYR A 904 50.564 46.149 12.240 1.00 20.00 ATOM 737 C TYR A 904 50.565 4.20 48.136 8.950 1.00 20.00 ATOM 737 C TYR A 904 55.649 46.115 10.223 1.00 20.00 ATOM 737 C TYR A 904 55.420 48.136 8.950 1.00 20.00 ATOM 740 CD1 TYR A 904 55.420 48.136 8.950 1.00 20.00 ATOM 740 CD1 TYR A 904 55.420 48.136 8.950 1.00 20.00 ATOM 740 CD	ATOM	707	CD2	LEU	А	900	70.624	55.498	7.033	1.00	20.00
ATOM 711 C ALA 901 67.113 49.495 7.275 1.00 20.00 ATOM 712 O ALA 8 901 67.221 48.567 7.670 1.00 20.00 ATOM 713 CB ALA 8 901 67.221 48.567 7.670 1.00 20.00 ATOM 713 CB ALA 8 902 66.372 50.260 8.078 1.00 20.00 ATOM 715 N ILE A 902 66.372 50.260 8.078 1.00 20.00 ATOM 716 CA ILE A 902 66.310 50.058 9.513 1.00 20.00 ATOM 717 C ILE A 902 65.367 48.888 9.812 1.00 20.00 ATOM 718 O ILE A 902 65.367 48.888 9.812 1.00 20.00 ATOM 719 CB ILE A 902 65.801 51.315 10.167 1.00 20.00 ATOM 720 CG1 ILE A 902 66.882 52.398 10.058 1.00 20.00 ATOM 721 CG2 ILE A 902 65.368 51.006 11.556 1.00 20.00 ATOM 721 CG2 ILE A 902 66.882 52.398 10.058 1.00 20.00 ATOM 722 CD1 ILE A 902 66.882 52.398 10.058 1.00 20.00 ATOM 723 CG GLU A 903 66.425 47.350 11.266 1.00 20.00 ATOM 724 N GLU A 903 66.425 47.350 11.465 1.00 20.00 ATOM 725 CA GLU A 903 66.425 47.350 11.465 1.00 20.00 ATOM 726 C GLU A 903 62.997 47.870 11.692 1.00 20.00 ATOM 727 O GLU A 903 62.997 47.870 11.692 1.00 20.00 ATOM 728 CB GLU A 903 64.973 46.703 12.746 1.00 20.00 ATOM 729 CG GLU A 903 63.985 45.965 13.580 1.00 20.00 ATOM 730 CD GLU A 903 63.985 45.965 13.580 1.00 20.00 ATOM 731 OEI GLU A 903 66.471 44.875 15.725 1.00 20.00 ATOM 732 CG GLU A 903 66.497 47.870 11.692 1.00 20.00 ATOM 733 CD GLU A 903 66.973 46.703 12.746 1.00 20.00 ATOM 734 N TYR A 904 60.078 47.846 10.758 1.00 20.00 ATOM 735 CA TYR A 904 60.074 47.846 10.758 1.00 20.00 ATOM 736 C TYR A 904 60.074 47.846 10.758 1.00 20.00 ATOM 737 C TYR A 904 60.078 47.846 10.758 1.00 20.00 ATOM 738 CB TYR A 904 60.078 47.146 9.521 1.00 20.00 ATOM 740 CD TYR A 904 55.458 46.125 10.188 1.00 20.00 ATOM 740 CD TYR A 904 56.420 48.136 8.955 1.00 20.00 ATOM 740 CD TYR A 904 56.420 48.136 8.955 1.00 20.00 ATOM 740 CD TYR A 904 56.420 48.136 8.955 1.00 20.00 ATOM 740 CD TYR A 904 56.420 48.136 8.955 1.00 20.00 ATOM 740 CD TYR A 904 56.420 48.136 8.955 1.00 20.00 ATOM 740 CD TYR A 904 56.420 48.136 8.955 1.00 20.00 ATOM 740 CD TYR A 904 56.420 48.136 8.955 1.00 20.00 ATOM 750 C ALA A 905 56.498 46.125 10.188 1.00 20.00 ATOM 751 O PRO A 90	MOTA	709	N	ALA	A	901	68.083	50.739	5.495	1.00	20.00
ATOM 712 O ALA A 901 67.828 48.577 7.670 1.00 20.00 ATOM 713 CB ALA A 901 67.828 48.574 7.670 1.00 20.00 ATOM 715 N LE A 902 66.372 50.260 8.078 1.00 20.00 ATOM 716 CA LLE A 902 66.372 50.260 8.078 1.00 20.00 ATOM 717 C LLE A 902 66.372 50.260 8.9513 1.00 20.00 ATOM 718 O LLE A 902 66.310 50.058 9.513 1.00 20.00 ATOM 718 O LLE A 902 65.367 48.888 9.917 1.00 20.00 ATOM 719 CB LLE A 902 65.801 51.315 10.167 1.00 20.00 ATOM 719 CB LLE A 902 65.801 51.315 10.167 1.00 20.00 ATOM 720 CG1 LLE A 902 65.801 51.315 10.167 1.00 20.00 ATOM 721 CG2 LLE A 902 65.368 51.006 11.556 1.00 20.00 ATOM 722 CD1 LLE A 902 65.368 51.006 11.556 1.00 20.00 ATOM 723 CG LLE A 903 66.382 52.398 10.058 1.006 20.00 ATOM 724 N GLU A 903 65.322 48.439 11.057 1.00 20.00 ATOM 725 CA GLU A 903 66.325 48.439 11.057 1.00 20.00 ATOM 726 C GLU A 903 62.997 47.870 11.652 1.00 20.00 ATOM 727 O GLU A 903 62.997 47.870 11.652 1.00 20.00 ATOM 728 CB GLU A 903 63.985 48.595 13.8580 10.00 20.00 ATOM 729 CG GLU A 903 63.985 46.703 12.746 1.00 20.00 ATOM 730 CD GLU A 903 63.985 45.965 13.8580 10.00 20.00 ATOM 731 OE1 GLU A 903 63.985 46.509 15.425 1.00 20.00 ATOM 731 OE1 GLU A 903 65.365 46.509 15.425 1.00 20.00 ATOM 732 CE2 GLU A 903 65.365 46.509 15.425 1.00 20.00 ATOM 734 N TYR A 904 60.054 46.149 12.240 1.00 20.00 ATOM 735 CA TYR A 904 60.054 46.149 12.240 1.00 20.00 ATOM 736 C TYR A 904 60.054 46.149 12.240 1.00 20.00 ATOM 737 O TYR A 904 60.054 46.149 12.240 1.00 20.00 ATOM 739 CG TYR A 904 59.985 47.328 11.989 1.00 20.00 ATOM 730 CC TYR A 904 50.564 46.149 12.240 1.00 20.00 ATOM 730 CC TYR A 904 50.564 46.149 12.240 1.00 20.00 ATOM 731 CC TYR A 904 50.564 46.149 12.240 1.00 20.00 ATOM 736 C TYR A 904 50.564 46.149 12.240 1.00 20.00 ATOM 737 O TYR A 904 50.564 46.149 12.240 1.00 20.00 ATOM 736 C TYR A 904 50.564 46.149 12.240 1.00 20.00 ATOM 737 O TYR A 904 50.648 46.149 12.240 1.00 20.00 ATOM 738 CB TYR A 904 50.648 46.149 12.240 1.00 20.00 ATOM 739 CG TYR A 904 50.648 46.149 12.240 1.00 20.00 ATOM 740 CD1 TYR A 904 50.648 46.149 12.240 1.00 20.00 ATOM	ATOM	710	CA	ALA	Α	901	67.043	49.813	5.811	1.00	20.00
ATOM 713 CB ALA A 901 67.221 48.564 5.003 1.00 20.00 ATOM 715 N ILE A 902 66.372 50.260 8.078 1.00 20.00 ATOM 716 CA ILE A 902 66.310 50.058 9.513 1.00 20.00 ATOM 717 C ILE A 902 66.310 50.058 9.513 1.00 20.00 ATOM 718 O ILE A 902 66.367 48.888 9.812 1.00 20.00 ATOM 719 CB ILE A 902 66.882 51.315 10.167 1.00 20.00 ATOM 720 CG1 ILE A 902 66.882 52.398 10.058 1.00 20.00 ATOM 721 CG2 ILE A 902 66.882 52.398 10.058 1.00 20.00 ATOM 722 CD1 ILE A 902 66.882 52.398 10.058 1.00 20.00 ATOM 722 CD1 ILE A 902 66.882 52.398 10.058 1.00 20.00 ATOM 724 N GLU A 903 65.308 51.006 11.556 1.00 20.00 ATOM 725 CA GLU A 903 66.435 47.350 11.692 1.00 20.00 ATOM 726 C GLU A 903 66.435 47.350 11.692 1.00 20.00 ATOM 727 O GLU A 903 66.497 47.870 11.692 1.00 20.00 ATOM 728 CB GLU A 903 66.497 46.703 12.746 1.00 20.00 ATOM 729 CG GLU A 903 66.497 46.703 12.746 1.00 20.00 ATOM 730 CD GLU A 903 66.497 46.703 12.746 1.00 20.00 ATOM 731 OE1 GLU A 903 66.497 46.703 12.746 1.00 20.00 ATOM 732 CB GLU A 903 66.497 46.703 12.746 1.00 20.00 ATOM 731 OE1 GLU A 903 66.497 46.703 12.746 1.00 20.00 ATOM 732 CB GLU A 903 66.497 46.703 12.746 1.00 20.00 ATOM 731 OF1 GLU A 903 66.497 46.703 12.746 1.00 20.00 ATOM 732 OE2 GLU A 903 66.497 47.876 15.725 1.00 20.00 ATOM 733 OT GLU A 903 66.497 46.703 12.746 1.00 20.00 ATOM 734 N TYR A 904 60.707 47.846 15.006 1.00 20.00 ATOM 735 CA TYR A 904 60.707 47.846 10.758 1.00 20.00 ATOM 736 C TYR A 904 60.707 47.846 10.758 1.00 20.00 ATOM 737 O TYR A 904 60.546 49.846 1.99 521 1.00 20.00 ATOM 738 CB TYR A 904 60.579 47.846 10.758 1.00 20.00 ATOM 739 CG TYR A 904 60.548 46.149 12.240 1.00 20.00 ATOM 730 CD TYR A 904 60.548 46.149 12.240 1.00 20.00 ATOM 731 OF1 TYR A 904 60.564 49.404 95.51 1.00 20.00 ATOM 734 N TYR A 904 60.564 49.404 95.507 1.00 20.00 ATOM 735 CB TYR A 904 60.564 49.404 95.507 1.00 20.00 ATOM 736 CC TYR A 904 55.698 47.204 95.51 1.00 20.00 ATOM 737 O TYR A 904 60.564 49.404 95.507 1.00 20.00 ATOM 737 O TYR A 904 55.698 47.204 95.507 1.00 20.00 ATOM 739 CG TYR A 904 55.698 47.204 95.507 1.00 20.00 AT	ATOM	711	С	ALA	A	901	67.113	49.495	7.275	1.00	20.00
ATOM 715 N ILE A 902 66.372 50.260 8.078 1.00 20.00 ATOM 716 CA ILE A 902 66.310 50.038 9.513 1.00 20.00 ATOM 717 C ILE A 902 66.367 48.888 9.513 1.00 20.00 ATOM 717 C ILE A 902 65.367 48.888 9.513 1.00 20.00 ATOM 718 0 ILE A 902 64.702 48.383 8.917 1.00 20.00 ATOM 718 CB ILE A 902 65.801 51.315 10.167 1.00 20.00 ATOM 720 CGI ILE A 902 65.801 51.315 10.167 1.00 20.00 ATOM 721 CG2 ILE A 902 65.801 51.315 10.167 1.00 20.00 ATOM 722 CDI ILE A 902 65.808 52.398 10.058 1.00 20.00 ATOM 722 CDI ILE A 902 65.308 51.006 11.556 1.00 20.00 ATOM 722 CDI ILE A 903 65.322 48.439 11.057 1.00 20.00 ATOM 724 N GLU A 903 65.322 48.439 11.057 1.00 20.00 ATOM 725 CA GLU A 903 66.4835 47.350 11.465 1.00 20.00 ATOM 727 O GLU A 903 62.713 48.559 12.662 1.00 20.00 ATOM 727 O GLU A 903 62.713 48.559 12.662 1.00 20.00 ATOM 728 CB GLU A 903 62.797 47.870 11.652 1.00 20.00 ATOM 728 CB GLU A 903 62.713 48.559 12.662 1.00 20.00 ATOM 730 CD GLU A 903 64.471 45.766 15.006 1.00 20.00 ATOM 730 CD GLU A 903 64.973 46.703 12.746 1.00 20.00 ATOM 731 OEI GLU A 903 63.985 45.965 13.580 1.00 20.00 ATOM 731 OEI GLU A 903 63.971 44.875 15.725 1.00 20.00 ATOM 732 OE2 GLU A 903 65.365 46.509 15.425 1.00 20.00 ATOM 733 CA TYR A 904 60.074 74.875 15.725 1.00 20.00 ATOM 735 CA TYR A 904 60.074 47.384 10.758 1.00 20.00 ATOM 735 CA TYR A 904 60.074 47.384 10.758 1.00 20.00 ATOM 738 CB TYR A 904 60.074 47.384 10.758 1.00 20.00 ATOM 738 CB TYR A 904 60.074 47.204 9.521 1.00 20.00 ATOM 739 CG TYR A 904 58.553 47.146 9.537 1.00 20.00 ATOM 741 CD2 TYR A 904 58.553 47.146 9.537 1.00 20.00 ATOM 742 CEI TYR A 904 58.553 47.146 9.537 1.00 20.00 ATOM 742 CEI TYR A 904 58.553 47.146 9.537 1.00 20.00 ATOM 742 CEI TYR A 904 55.498 46.115 10.23 1.00 20.00 ATOM 742 CEI TYR A 904 55.498 46.125 10.188 1.00 20.00 ATOM 742 CEI TYR A 904 55.498 46.125 10.188 1.00 20.00 ATOM 745 CB TYR A 904 55.498 46.125 10.188 1.00 20.00 ATOM 745 CB TYR A 904 55.498 46.151 10.23 1.00 20.00 ATOM 745 CB TYR A 904 55.498 46.151 10.23 1.00 20.00 ATOM 745 CB TYR A 904 55.498 46.151 10.23 1.00 20.00	ATOM	712	0	ALA	A	901	67.828	48.577	7.670	1.00	20.00
ATOM 716 CA ILE A 902 66.310 50.058 9.513 1.00 20.00 ATOM 717 C ILE A 902 65.367 48.888 9.812 1.00 20.00 ATOM 718 O ILE A 902 64.702 48.383 8.917 1.00 20.00 ATOM 719 CB ILE A 902 66.882 52.398 10.058 1.00 20.00 ATOM 719 CB ILE A 902 66.882 52.398 10.058 1.00 20.00 ATOM 721 CG2 ILE A 902 66.882 52.398 10.058 10.00 20.00 ATOM 721 CG2 ILE A 902 66.882 52.398 11.280 1.00 20.00 ATOM 722 CD1 ILE A 902 66.882 52.398 11.280 1.00 20.00 ATOM 722 CD1 ILE A 902 66.882 52.398 11.280 1.00 20.00 ATOM 724 N 6UU A 903 65.322 48.439 11.057 1.00 20.00 ATOM 725 CA GLU A 903 66.325 48.439 11.057 1.00 20.00 ATOM 727 O GLU A 903 62.997 47.870 11.692 1.00 20.00 ATOM 727 O GLU A 903 62.793 48.559 12.662 1.00 20.00 ATOM 728 CB GLU A 903 62.793 46.703 12.746 1.00 20.00 ATOM 729 CG GLU A 903 62.793 46.703 12.746 1.00 20.00 ATOM 730 CD GLU A 903 63.971 44.875 15.725 1.00 20.00 ATOM 730 CD GLU A 903 63.971 44.875 15.725 1.00 20.00 ATOM 731 OEL GLU A 903 63.971 44.875 15.725 1.00 20.00 ATOM 732 CE2 GLU A 903 63.971 44.875 15.725 1.00 20.00 ATOM 735 CE GLU A 904 62.115 47.514 10.767 1.00 20.00 ATOM 735 CE GLU A 904 62.115 47.514 10.767 1.00 20.00 ATOM 735 CE GLU A 904 62.115 47.514 10.767 1.00 20.00 ATOM 736 C TYR A 904 62.115 47.514 10.767 1.00 20.00 ATOM 737 O TYR A 904 60.574 47.846 10.767 1.00 20.00 ATOM 738 C TYR A 904 60.574 47.846 10.767 1.00 20.00 ATOM 736 C TYR A 904 60.574 47.326 11.989 1.00 20.00 ATOM 737 O TYR A 904 60.574 47.326 10.952 1.00 20.00 ATOM 736 C TYR A 904 55.755 48.150 8.920 1.00 20.00 ATOM 736 C TYR A 904 55.553 47.146 9.537 1.00 20.00 ATOM 736 C TYR A 904 55.553 47.1328 11.989 1.00 20.00 ATOM 737 O TYR A 904 55.553 47.1328 11.989 1.00 20.00 ATOM 740 CD1 TYR A 904 55.459 44.350 8.920 1.00 20.00 ATOM 740 CD1 TYR A 904 55.553 47.146 9.537 1.00 20.00 ATOM 740 CD1 TYR A 904 55.553 47.146 9.537 1.00 20.00 ATOM 740 CD1 TYR A 904 55.553 47.146 9.537 1.00 20.00 ATOM 740 CD1 TYR A 904 55.779 48.183 12.727 1.00 20.00 ATOM 740 CD TYR A 904 55.498 46.195 10.188 10.00 20.00 ATOM 745 C R ALA A 905 56.420 48.186 1.00 22.00 0.00 ATO	ATOM	713	CB	ALA	Α	901	67.221	48.564	5.003	1.00	20.00
ATOM 717 C ILE A 902 65.367 48.888 9.812 1.00 20.00 ATOM 718 C ILE A 902 64.702 48.383 8.917 1.00 20.00 ATOM 719 CB ILE A 902 66.801 51.315 10.167 1.00 20.00 ATOM 720 CG1 ILE A 902 66.882 52.398 10.058 1.00 20.00 ATOM 721 CG2 ILE A 902 66.882 52.398 10.058 1.00 20.00 ATOM 722 CD1 ILE A 902 66.882 52.398 10.058 1.00 20.00 ATOM 722 CD1 ILE A 902 66.882 52.398 11.280 1.00 20.00 ATOM 724 N GLU A 903 66.322 48.439 11.280 1.00 20.00 ATOM 725 CA GLU A 903 64.435 47.350 11.465 1.00 20.00 ATOM 726 C GLU A 903 62.997 47.870 11.692 1.00 20.00 ATOM 727 O GLU A 903 62.997 47.870 11.692 1.00 20.00 ATOM 728 CB GLU A 903 62.997 47.870 11.692 1.00 20.00 ATOM 729 CG GLU A 903 62.713 48.559 12.662 1.00 20.00 ATOM 729 CG GLU A 903 63.985 45.965 13.580 1.00 20.00 ATOM 730 CD GLU A 903 63.985 45.965 13.580 1.00 20.00 ATOM 730 CD GLU A 903 63.985 45.965 13.580 1.00 20.00 ATOM 731 OEI GLU A 903 63.971 44.875 15.725 1.00 20.00 ATOM 731 OEI GLU A 903 65.365 46.509 15.425 1.00 20.00 ATOM 734 N TYR A 904 62.115 47.514 10.767 1.00 20.00 ATOM 735 CA TYR A 904 60.707 47.846 10.758 1.00 20.00 ATOM 736 C TYR A 904 60.707 47.846 10.758 1.00 20.00 ATOM 737 C TYR A 904 60.707 47.846 10.758 1.00 20.00 ATOM 738 CB TYR A 904 60.707 47.846 10.758 1.00 20.00 ATOM 738 CB TYR A 904 60.054 46.149 12.240 1.00 20.00 ATOM 738 CB TYR A 904 60.054 46.149 12.240 1.00 20.00 ATOM 730 CTYR A 904 55.553 47.146 9.537 1.00 20.00 ATOM 740 CD1 TYR A 904 55.553 47.146 9.537 1.00 20.00 ATOM 740 CD1 TYR A 904 55.553 47.146 9.537 1.00 20.00 ATOM 740 CD1 TYR A 904 55.5985 47.328 11.989 1.00 20.00 ATOM 740 CD1 TYR A 904 55.598 47.204 9.521 1.00 20.00 ATOM 740 CD1 TYR A 904 55.598 47.128 9.597 1.00 20.00 ATOM 740 CD1 TYR A 904 55.598 47.128 9.597 1.00 20.00 ATOM 740 CD1 TYR A 904 55.598 47.328 11.989 1.00 20.00 ATOM 740 CD2 TYR A 904 55.598 47.328 11.989 1.00 20.00 ATOM 740 CD2 TYR A 904 55.499 46.135 8.955 1.00 20.00 ATOM 745 CR TYR A 904 55.598 47.328 11.989 1.00 20.00 ATOM 745 CR TYR A 904 55.598 49.309 41.39918 1.00 20.00 ATOM 755 C A RAA A 905 56.395 48.128 12.744 1.00	MOTA	715	N	ILE	A	902	66.372	50.260	8.078	1.00	20.00
ATOM 718 O ILE A 902 64.702 48.383 8.917 1.00 20.00 ATOM 719 CB ILE A 902 65.801 51.315 10.167 1.00 20.00 ATOM 720 CGI ILE A 902 65.801 51.315 10.167 1.00 20.00 ATOM 720 CGI ILE A 902 65.802 52.398 10.058 1.00 20.00 ATOM 721 CG2 ILE A 902 65.808 51.006 11.556 1.00 20.00 ATOM 724 N GIU A 903 65.322 48.439 11.057 1.00 20.00 ATOM 725 CA GIU A 903 65.322 48.439 11.057 1.00 20.00 ATOM 725 CA GIU A 903 62.997 47.870 11.665 1.00 20.00 ATOM 726 C GIU A 903 62.997 47.870 11.665 1.00 20.00 ATOM 727 O GIU A 903 62.997 47.870 11.692 1.00 20.00 ATOM 728 CB GIU A 903 62.997 47.870 11.692 1.00 20.00 ATOM 729 CG GIU A 903 64.471 45.765 13.580 1.00 20.00 ATOM 729 CG GIU A 903 64.471 45.765 15.006 1.00 20.00 ATOM 731 OEI GIU A 903 64.471 45.765 15.006 1.00 20.00 ATOM 731 OEI GIU A 903 63.985 45.965 13.580 1.00 20.00 ATOM 732 OE2 GIU A 903 63.985 45.965 13.580 1.00 20.00 ATOM 731 OEI GIU A 903 63.985 45.965 13.580 1.00 20.00 ATOM 731 OEI GIU A 903 63.985 45.965 13.580 1.00 20.00 ATOM 732 OE2 GIU A 903 63.985 45.965 13.580 1.00 20.00 ATOM 733 OEI GIU A 903 63.985 45.965 13.580 1.00 20.00 ATOM 734 N TYR A 904 62.115 47.514 10.767 1.00 20.00 ATOM 735 CA TYR A 904 60.707 47.846 10.758 1.00 20.00 ATOM 736 C TYR A 904 60.707 47.846 10.758 1.00 20.00 ATOM 736 C TYR A 904 60.054 46.149 12.240 1.00 20.00 ATOM 738 CB TYR A 904 60.054 46.149 12.240 1.00 20.00 ATOM 739 CG TYR A 904 50.858 47.328 11.989 1.00 20.00 ATOM 740 CD1 TYR A 904 57.795 48.150 8.920 1.00 20.00 ATOM 740 CD1 TYR A 904 57.795 48.150 8.920 1.00 20.00 ATOM 740 CD1 TYR A 904 57.795 48.150 8.920 1.00 20.00 ATOM 740 CD1 TYR A 904 55.459 47.149 9.537 1.00 20.00 ATOM 740 CD1 TYR A 904 55.459 47.149 9.521 1.00 20.00 ATOM 740 CD1 TYR A 904 55.459 47.149 9.502 1.00 20.00 ATOM 740 CD1 TYR A 904 55.450 47.149 9.502 1.00 20.00 ATOM 740 CD1 TYR A 904 55.450 47.149 9.502 1.00 20.00 ATOM 740 CD1 TYR A 904 55.450 47.149 9.502 1.00 20.00 ATOM 740 CD1 TYR A 904 55.450 47.149 9.502 1.00 20.00 ATOM 740 CD TYR A 904 55.450 47.149 9.502 1.00 20.00 ATOM 740 CD TYR A 904 55.450 47.149 9.502 1.00	MOTA	716	CA	ILE	A	902	66.310	50.058	9.513	1.00	20.00
ATOM 718 O ILE A 902 65.801 51.315 10.05 1.00 20.00 ATOM 719 CE ILE A 902 65.801 51.315 10.05 1.00 20.00 ATOM 720 CG1 ILE A 902 66.882 52.398 10.058 1.00 20.00 ATOM 721 CG2 ILE A 902 65.808 51.006 11.556 1.00 20.00 ATOM 722 CD1 ILE A 902 67.878 52.583 11.280 10.05 20.00 ATOM 724 N GLU A 903 65.322 48.439 11.057 1.00 20.00 ATOM 725 CA GLU A 903 65.322 48.439 11.057 10.00 20.00 ATOM 726 C GLU A 903 62.997 47.870 11.692 1.00 20.00 ATOM 727 O GLU A 903 62.713 48.559 12.662 1.00 20.00 ATOM 728 CB GLU A 903 62.713 48.559 12.662 1.00 20.00 ATOM 729 CG GLU A 903 64.471 45.766 13.580 1.00 20.00 ATOM 729 CG GLU A 903 64.471 45.766 13.580 1.00 20.00 ATOM 730 CD GLU A 903 64.471 45.766 15.006 1.00 20.00 ATOM 731 OEI GLU A 903 63.985 45.965 13.580 1.00 20.00 ATOM 731 OEI GLU A 903 63.985 45.965 13.580 1.00 20.00 ATOM 731 OEI GLU A 903 63.985 46.596 15.056 1.00 20.00 ATOM 731 OEI GLU A 903 63.987 44.875 15.725 1.00 20.00 ATOM 731 OEI GLU A 903 63.985 45.965 115.506 1.00 20.00 ATOM 731 OEI GLU A 903 63.987 44.875 15.725 1.00 20.00 ATOM 732 OEZ GLU A 903 63.971 44.875 15.725 1.00 20.00 ATOM 736 CC TYR A 904 62.115 47.514 10.767 1.00 20.00 ATOM 736 C TYR A 904 60.504 46.109 12.240 1.00 20.00 ATOM 736 C TYR A 904 60.504 46.109 12.240 1.00 20.00 ATOM 736 C TYR A 904 60.504 46.149 12.240 1.00 20.00 ATOM 737 C TYR A 904 58.553 47.328 11.989 1.00 20.00 ATOM 740 CD1 TYR A 904 58.553 47.146 9.537 1.00 20.00 ATOM 740 CD1 TYR A 904 58.553 47.146 9.537 1.00 20.00 ATOM 740 CD1 TYR A 904 58.553 47.146 9.537 1.00 20.00 ATOM 740 CD1 TYR A 904 58.553 47.146 9.537 1.00 20.00 ATOM 740 CD1 TYR A 904 58.553 47.146 9.537 1.00 20.00 ATOM 740 CD1 TYR A 904 58.553 47.146 9.537 1.00 20.00 ATOM 740 CD1 TYR A 904 58.553 47.146 9.537 1.00 20.00 ATOM 740 CD1 TYR A 904 58.553 47.146 9.537 1.00 20.00 ATOM 740 CD1 TYR A 904 58.553 47.146 9.537 1.00 20.00 ATOM 740 CD1 TYR A 904 58.553 47.328 11.989 1.00 20.00 ATOM 740 CD1 TYR A 904 58.553 47.328 11.989 1.00 20.00 ATOM 745 CR TYR A 904 58.553 47.328 11.990 9.502 1.00 20.00 ATOM 745 CR TYR A 904 58.5649 48.150		717	C	ILE	A	902	65.367	48.888	9.812	1.00	20.00
ATOM 719 CB ILE A 902 65.801 51.315 10.167 1.00 20.00 ATOM 720 CG1 ILE A 902 66.882 52.398 10.058 1.00 20.00 ATOM 721 CG2 ILE A 902 65.308 51.006 11.556 1.00 20.00 ATOM 721 CG2 ILE A 902 67.878 52.583 11.280 1.00 20.00 ATOM 725 CA GLU A 903 65.322 48.439 11.057 1.00 20.00 ATOM 725 CA GLU A 903 62.997 47.870 11.652 1.00 20.00 ATOM 726 C GLU A 903 62.997 47.870 11.652 1.00 20.00 ATOM 727 O GLU A 903 62.997 47.870 11.652 1.00 20.00 ATOM 728 CB GLU A 903 62.997 47.870 11.652 1.00 20.00 ATOM 728 CB GLU A 903 62.997 47.870 11.652 1.00 20.00 ATOM 728 CB GLU A 903 62.997 47.870 11.692 1.00 20.00 ATOM 728 CB GLU A 903 63.985 45.965 13.580 1.00 20.00 ATOM 730 CD GLU A 903 63.985 45.965 13.580 1.00 20.00 ATOM 731 OE1 GLU A 903 63.985 45.965 13.580 1.00 20.00 ATOM 731 OE1 GLU A 903 63.985 45.965 15.725 1.00 20.00 ATOM 731 OE1 GLU A 903 65.365 46.509 15.425 1.00 20.00 ATOM 732 OE2 GLU A 903 65.365 46.509 15.425 1.00 20.00 ATOM 735 CA TYR A 904 62.115 47.514 10.675 1.00 20.00 ATOM 735 CA TYR A 904 62.115 47.514 10.675 1.00 20.00 ATOM 736 C TYR A 904 60.707 47.846 10.758 1.00 20.00 ATOM 737 O TYR A 904 60.054 46.149 12.240 1.00 20.00 ATOM 738 CB TYR A 904 60.054 46.19 12.240 1.00 20.00 ATOM 738 CB TYR A 904 60.054 46.19 12.240 1.00 20.00 ATOM 740 CD1 TYR A 904 57.795 48.150 8.920 1.00 20.00 ATOM 741 CD2 TYR A 904 57.795 48.150 8.920 1.00 20.00 ATOM 742 CE1 TYR A 904 57.795 48.150 8.920 1.00 20.00 ATOM 742 CE1 TYR A 904 55.498 46.115 10.223 1.00 20.00 ATOM 743 CE2 TYR A 904 55.498 46.115 10.223 1.00 20.00 ATOM 745 CH TYR A 904 55.799 47.128 9.602 1.00 20.00 ATOM 745 CH TYR A 904 55.498 46.125 10.188 1.00 20.00 ATOM 745 CH TYR A 904 55.498 46.125 10.188 1.00 20.00 ATOM 745 CH TYR A 904 55.498 46.125 10.188 1.00 20.00 ATOM 745 CH TYR A 904 55.498 46.125 10.188 1.00 20.00 ATOM 745 CH TYR A 904 55.498 46.125 10.188 1.00 20.00 ATOM 745 CH TYR A 904 55.499 45.405 47.149 9.622 1.00 20.00 ATOM 745 CH TYR A 904 55.499 45.405 47.149 9.622 1.00 20.00 ATOM 755 CA ALA A 905 56.395 48.128 12.777 1.00 20.00 ATOM 755 CA ALA A 905 56.395 48.12			0	ILE	A	902	64.702	48.383	8.917	1.00	20.00
ATOM 720 CG1 ILE A 902 66.882 52.398 10.058 1.00 20.00 ATOM 721 CG2 ILE A 902 65.308 51.006 11.556 1.00 20.00 ATOM 722 CD1 ILE A 902 65.308 51.006 11.556 1.00 20.00 ATOM 722 CD1 ILE A 902 67.878 52.583 11.280 1.00 20.00 ATOM 724 N GLU A 903 65.322 48.439 11.057 1.00 20.00 ATOM 725 CA GLU A 903 64.435 47.350 11.465 1.00 20.00 ATOM 726 C GLU A 903 62.997 47.870 11.692 1.00 20.00 ATOM 727 O GLU A 903 62.997 47.870 11.692 1.00 20.00 ATOM 728 CB GLU A 903 62.997 47.870 11.692 1.00 20.00 ATOM 728 CB GLU A 903 64.973 46.703 12.746 1.00 20.00 ATOM 729 CG GLU A 903 64.973 46.703 12.746 1.00 20.00 ATOM 730 CD GLU A 903 64.471 45.766 15.006 1.00 20.00 ATOM 731 OCD GLU A 903 63.985 45.965 13.580 1.00 20.00 ATOM 732 OCD GLU A 903 63.985 45.965 13.580 1.00 20.00 ATOM 731 OCD GLU A 903 63.981 44.875 15.725 1.00 20.00 ATOM 732 OCD GLU A 903 63.971 44.875 15.725 1.00 20.00 ATOM 732 OCD GLU A 903 63.971 44.875 15.725 1.00 20.00 ATOM 734 N TYR A 904 62.115 47.514 10.767 1.00 20.00 ATOM 735 CA TYR A 904 60.707 47.846 10.758 1.00 20.00 ATOM 736 C TYR A 904 60.707 47.846 10.758 1.00 20.00 ATOM 736 C TYR A 904 60.054 46.149 12.240 1.00 20.00 ATOM 738 CB TYR A 904 60.054 46.149 12.240 1.00 20.00 ATOM 739 CG TYR A 904 60.054 46.149 12.240 1.00 20.00 ATOM 739 CG TYR A 904 60.078 47.204 9.521 1.00 20.00 ATOM 740 CD1 TYR A 904 58.553 47.146 9.537 1.00 20.00 ATOM 740 CD1 TYR A 904 55.759 48.150 8.920 1.00 20.00 ATOM 741 CD2 TYR A 904 55.498 46.115 10.223 1.00 20.00 ATOM 742 CE1 TYR A 904 55.498 46.115 10.223 1.00 20.00 ATOM 745 CH TYR A 904 55.498 46.115 10.223 1.00 20.00 ATOM 745 CH TYR A 904 55.498 46.115 10.223 1.00 20.00 ATOM 745 CB ALA A 905 56.998 47.128 9.602 1.00 20.00 ATOM 745 CB ALA A 905 56.998 47.146 9.527 1.00 20.00 ATOM 745 CB ALA A 905 56.998 46.155 1.00 22 1.00 20.00 ATOM 750 C ALA A 905 56.998 47.149 9.622 1.00 20.00 ATOM 750 C ALA A 905 56.998 47.149 9.622 1.00 20.00 ATOM 750 C ALA A 905 56.998 47.428 12.744 1.00 20.00 ATOM 750 C ALA A 905 56.998 47.428 12.744 1.00 20.00 ATOM 750 C ALA A 905 56.998 47.428 12.744 1.00 20.0			CB				65.801	51.315	10.167	1.00	20.00
ATOM 721 CG2 ILE A 902 65.308 51.006 11.556 1.00 20.00 ATOM 722 CD1 ILE A 902 67.878 52.583 11.280 1.00 20.00 ATOM 724 N GLU A 903 65.322 48.439 11.057 1.00 20.00 ATOM 725 CA GLU A 903 62.997 47.870 11.652 1.00 20.00 ATOM 726 C GLU A 903 62.997 47.870 11.652 1.00 20.00 ATOM 727 O GLU A 903 62.997 47.870 11.652 1.00 20.00 ATOM 728 CB GLU A 903 62.997 47.870 11.652 1.00 20.00 ATOM 728 CB GLU A 903 62.997 47.870 11.652 1.00 20.00 ATOM 729 CG GLU A 903 63.985 45.965 13.580 1.00 20.00 ATOM 730 CD GLU A 903 63.985 45.965 13.580 1.00 20.00 ATOM 730 CD GLU A 903 63.985 45.965 13.580 1.00 20.00 ATOM 731 OE1 GLU A 903 63.987 44.875 15.725 1.00 20.00 ATOM 732 OE2 GLU A 903 65.365 46.509 15.425 1.00 20.00 ATOM 732 OE2 GLU A 903 65.365 46.509 15.425 1.00 20.00 ATOM 734 N TYR A 904 60.707 47.846 10.758 1.00 20.00 ATOM 735 CA TYR A 904 60.707 47.846 10.758 1.00 20.00 ATOM 736 C TYR A 904 60.707 47.846 10.758 1.00 20.00 ATOM 737 O TYR A 904 60.054 46.149 12.240 9.20 00 ATOM 737 O TYR A 904 60.054 46.149 12.240 9.20 00 ATOM 739 CG TYR A 904 60.078 47.204 9.521 1.00 20.00 ATOM 739 CG TYR A 904 58.553 47.146 9.537 1.00 20.00 ATOM 740 CD1 TYR A 904 58.553 47.146 9.537 1.00 20.00 ATOM 740 CD1 TYR A 904 58.553 47.146 9.537 1.00 20.00 ATOM 740 CD1 TYR A 904 55.429 48.150 8.920 1.00 20.00 ATOM 742 CE1 TYR A 904 56.420 48.136 8.955 1.00 20.00 ATOM 742 CE1 TYR A 904 56.420 48.136 8.955 1.00 20.00 ATOM 742 CE1 TYR A 904 56.420 48.136 8.955 1.00 20.00 ATOM 745 OH TYR A 904 56.420 48.136 8.955 1.00 20.00 OL ATOM 745 OH TYR A 904 56.420 48.136 8.955 1.00 20.00 OL ATOM 745 OH TYR A 904 56.420 48.136 8.955 1.00 20.00 OL ATOM 745 OH TYR A 904 56.420 48.136 8.955 1.00 20.00 OL ATOM 745 OH TYR A 904 56.420 48.136 8.955 1.00 20.00 OL ATOM 745 OH TYR A 904 56.420 48.136 8.955 1.00 20.00 OL ATOM 745 OH TYR A 904 56.420 48.136 8.955 1.00 20.00 OL ATOM 745 OH TYR A 904 56.420 48.136 8.955 1.00 20.00 OL ATOM 745 OH TYR A 904 56.420 48.136 8.955 1.00 20.00 OL ATOM 745 OH TYR A 904 56.420 48.136 8.955 1.00 20.00 OL ATOM 745 OH TYR A 904 56.420 48.136 8.							66.882	52.398	10.058	1.00	20.00
ATOM 722 CD1 ILE A 902 67.878 52.583 11.280 1.00 20.00 ATOM 725 CA GLU A 903 65.322 48.439 11.057 1.00 20.00 ATOM 725 CA GLU A 903 64.435 47.350 11.465 1.00 20.00 ATOM 726 C GLU A 903 62.997 47.870 11.692 1.00 20.00 ATOM 727 O GLU A 903 62.997 47.870 11.692 1.00 20.00 ATOM 728 CB GLU A 903 62.997 47.870 11.692 1.00 20.00 ATOM 729 CG GLU A 903 63.985 45.965 13.580 1.00 20.00 ATOM 730 CD GLU A 903 64.471 45.766 15.006 1.00 20.00 ATOM 731 OE1 GLU A 903 63.985 45.965 13.580 1.00 20.00 ATOM 732 OE2 GLU A 903 63.971 44.875 15.725 1.00 20.00 ATOM 732 OE2 GLU A 903 65.365 46.509 15.425 1.00 20.00 ATOM 732 OE2 GLU A 903 65.365 46.509 15.425 1.00 20.00 ATOM 734 N TYR A 904 62.115 47.514 10.767 1.00 20.00 ATOM 735 CA TYR A 904 60.707 47.846 10.758 1.00 20.00 ATOM 736 C TYR A 904 60.074 46.149 12.240 1.00 20.00 ATOM 737 O TYR A 904 60.074 47.846 10.758 1.00 20.00 ATOM 738 CB TYR A 904 60.074 47.204 9.521 1.00 20.00 ATOM 739 CG TYR A 904 60.078 47.204 9.521 1.00 20.00 ATOM 739 CG TYR A 904 60.078 47.204 9.521 1.00 20.00 ATOM 740 CD1 TYR A 904 658.553 47.146 9.537 1.00 20.00 ATOM 740 CD1 TYR A 904 558.553 47.146 9.537 1.00 20.00 ATOM 740 CD1 TYR A 904 558.553 47.146 9.537 1.00 20.00 ATOM 742 CE1 TYR A 904 55.498 46.125 10.188 1.00 20.00 ATOM 742 CE1 TYR A 904 55.498 46.125 10.188 1.00 20.00 ATOM 742 CE1 TYR A 904 55.498 46.125 10.188 1.00 20.00 ATOM 745 OH TYR A 904 55.498 46.125 10.188 1.00 20.00 ATOM 745 OH TYR A 904 55.498 46.125 10.188 1.00 20.00 ATOM 745 OH TYR A 904 55.498 46.125 10.188 1.00 20.00 ATOM 745 OH TYR A 904 55.498 46.125 10.188 1.00 20.00 ATOM 745 OH TYR A 904 56.498 46.125 10.188 1.00 20.00 ATOM 745 OH TYR A 904 56.498 46.125 10.188 1.00 20.00 ATOM 745 OH TYR A 904 56.498 46.125 10.188 1.00 20.00 ATOM 745 OH TYR A 904 56.498 46.125 10.188 1.00 20.00 ATOM 745 OH TYR A 904 56.498 46.125 10.188 1.00 20.00 ATOM 745 OH TYR A 904 56.498 46.125 10.188 1.00 20.00 ATOM 750 C ALA A 905 56.395 48.128 12.74 4 1.00 20.00 ATOM 750 C ALA A 905 56.395 48.291 1.00 20.00 ATOM 750 C ALA A 905 56.395 48.292 1.00 20.00 ATOM 75				ILE	A	902				1.00	20.00
ATOM 724 N GLU A 903 65.322 48.439 11.057 1.00 20.00 ATOM 725 CA GLU A 903 64.435 47.350 11.692 1.00 20.00 ATOM 726 C GLU A 903 62.997 47.870 11.692 1.00 20.00 ATOM 727 O GLU A 903 62.997 47.870 11.692 1.00 20.00 ATOM 728 CB GLU A 903 62.997 47.870 11.692 1.00 20.00 ATOM 728 CB GLU A 903 62.997 47.870 12.662 1.00 20.00 ATOM 728 CB GLU A 903 64.4973 46.703 12.746 1.00 20.00 ATOM 730 CD GLU A 903 63.985 45.965 13.580 1.00 20.00 ATOM 731 OE1 GLU A 903 64.471 45.766 15.006 1.00 20.00 ATOM 732 OE2 GLU A 903 63.991 44.875 15.725 1.00 20.00 ATOM 732 OE2 GLU A 903 65.365 46.509 15.725 1.00 20.00 ATOM 734 N TYR A 904 62.115 47.514 10.767 1.00 20.00 ATOM 735 CA TYR A 904 60.707 47.846 10.758 1.00 20.00 ATOM 735 CA TYR A 904 60.054 46.149 12.240 1.00 20.00 ATOM 738 CB TYR A 904 60.054 46.149 12.240 1.00 20.00 ATOM 738 CB TYR A 904 60.054 46.149 12.240 1.00 20.00 ATOM 739 CG TYR A 904 60.054 46.149 12.240 1.00 20.00 ATOM 739 CG TYR A 904 58.553 47.146 9.537 1.00 20.00 ATOM 740 CD1 TYR A 904 57.868 46.125 10.188 1.00 20.00 ATOM 741 CD2 TYR A 904 56.420 48.136 8.955 1.00 20.00 ATOM 742 CE1 TYR A 904 56.420 48.136 8.955 1.00 20.00 ATOM 742 CE1 TYR A 904 56.420 48.136 8.955 1.00 20.00 ATOM 744 CZ TYR A 904 56.420 48.136 8.955 1.00 20.00 ATOM 745 OH TYR A 904 56.420 48.136 8.955 1.00 20.00 ATOM 740 CD1 TYR A 904 56.420 48.136 8.955 1.00 20.00 ATOM 740 CD TYR A 904 56.420 48.136 8.955 1.00 20.00 ATOM 740 CD TYR A 904 56.420 48.136 8.955 1.00 20.00 ATOM 740 CD TYR A 904 56.420 48.136 8.955 1.00 20.00 ATOM 740 CD TYR A 904 56.420 48.136 8.955 1.00 20.00 ATOM 740 CD TYR A 904 56.420 48.136 8.955 1.00 20.00 ATOM 740 CD TYR A 904 56.420 48.136 8.955 1.00 20.00 ATOM 740 CD TYR A 904 56.420 48.136 8.955 1.00 20.00 ATOM 750 C ALA A 905 56.395 48.128 12.747 1.00 20.00 ATOM 750 C ALA A 905 56.395 48.128 12.741 1.00 20.00 ATOM 750 C ALA A 905 56.395 48.128 12.741 1.00 20.00 ATOM 750 C ALA A 905 56.395 48.128 12.744 1.00 20.00 ATOM 750 C ALA A 905 56.395 48.128 12.741 1.00 20.00 ATOM 750 C ALA A 905 56.395 48.128 12.744 1.00 20.00 ATOM 750								52.583		1.00	20.00
ATOM 725 CA GLU A 903 64.435 47.350 11.465 1.00 20.00 ATOM 726 C GLU A 903 62.997 47.870 11.692 1.00 20.00 ATOM 727 O GLU A 903 62.713 48.559 12.662 1.00 20.00 ATOM 728 CB GLU A 903 64.973 46.703 12.746 1.00 20.00 ATOM 729 CG GLU A 903 64.973 46.703 12.746 1.00 20.00 ATOM 729 CG GLU A 903 63.985 45.965 13.580 1.00 20.00 ATOM 731 OE1 GLU A 903 63.985 45.965 13.580 1.00 20.00 ATOM 731 OE1 GLU A 903 63.9871 44.875 15.725 1.00 20.00 ATOM 732 OE2 GLU A 903 65.365 46.509 15.425 1.00 20.00 ATOM 734 N TYR A 904 62.115 47.514 10.767 1.00 20.00 ATOM 735 CA TYR A 904 60.707 47.846 10.758 1.00 20.00 ATOM 736 C TYR A 904 60.0707 47.846 10.758 1.00 20.00 ATOM 738 CB TYR A 904 60.054 46.149 12.240 1.00 20.00 ATOM 738 CB TYR A 904 60.078 47.204 9.521 1.00 20.00 ATOM 739 CG TYR A 904 58.553 47.146 9.537 1.00 20.00 ATOM 740 CD1 TYR A 904 58.553 47.146 9.537 1.00 20.00 ATOM 740 CD1 TYR A 904 56.420 48.136 8.920 1.00 20.00 ATOM 741 CD2 TYR A 904 56.420 48.136 8.925 1.00 20.00 ATOM 742 CE1 TYR A 904 56.420 48.136 8.955 1.00 20.00 ATOM 742 CE1 TYR A 904 56.420 48.136 8.955 1.00 20.00 ATOM 745 OH TYR A 904 56.420 48.136 8.955 1.00 20.00 ATOM 745 OH TYR A 904 56.498 46.115 10.223 1.00 20.00 ATOM 745 OH TYR A 904 56.498 46.115 10.223 1.00 20.00 ATOM 745 OH TYR A 904 56.498 46.115 10.223 1.00 20.00 ATOM 745 OH TYR A 904 56.498 46.115 10.223 1.00 20.00 ATOM 745 OH TYR A 904 56.498 46.115 10.223 1.00 20.00 ATOM 745 OH TYR A 904 56.498 46.115 10.223 1.00 20.00 ATOM 745 OH TYR A 904 56.498 46.115 10.223 1.00 20.00 ATOM 745 OH TYR A 904 56.498 46.115 10.223 1.00 20.00 ATOM 745 OH TYR A 904 56.498 46.125 10.223 1.00 20.00 ATOM 750 C ALA A 905 58.59270 48.8183 12.727 1.00 20.00 ATOM 750 C ALA A 905 58.59270 48.8183 12.727 1.00 20.00 ATOM 750 C ALA A 905 56.391 48.8183 12.727 1.00 20.00 ATOM 750 C ALA A 905 56.341 46.572 14.317 1.00 20.00 ATOM 750 C PRO A 906 55.992 45.748 15.150 1.00 20.00 ATOM 750 C PRO A 906 54.994 46.394 13.918 1.00 20.00 ATOM 750 C PRO A 906 54.958 44.937 13.468 1.00 20.00 ATOM 750 C PRO A 906 55.992 45.748 15.150 1.00 20.										1.00	20.00
ATOM 726 C GLU A 903 62.997 47.870 11.692 1.00 20.00 ATOM 727 0 GLU A 903 62.713 48.559 12.662 1.00 20.00 ATOM 728 CB GLU A 903 64.973 46.703 12.746 1.00 20.00 ATOM 729 CG GLU A 903 63.985 45.965 13.580 1.00 20.00 ATOM 730 CD GLU A 903 63.985 45.965 13.580 1.00 20.00 ATOM 731 0E1 GLU A 903 63.985 45.965 13.580 1.00 20.00 ATOM 731 0E1 GLU A 903 63.971 44.875 15.725 1.00 20.00 ATOM 732 0E2 GLU A 903 65.365 46.509 15.425 1.00 20.00 ATOM 732 0E2 GLU A 903 65.365 46.509 15.425 1.00 20.00 ATOM 734 N TYR A 904 62.115 47.514 10.767 1.00 20.00 ATOM 735 CA TYR A 904 60.707 47.846 10.758 1.00 20.00 ATOM 736 C TYR A 904 60.074 47.846 10.758 1.00 20.00 ATOM 737 0 TYR A 904 60.074 47.846 10.758 1.00 20.00 ATOM 738 CB TYR A 904 60.078 47.204 9.521 1.00 20.00 ATOM 739 CG TYR A 904 58.553 47.146 9.537 1.00 20.00 ATOM 739 CG TYR A 904 55.553 47.146 9.537 1.00 20.00 ATOM 740 CD1 TYR A 904 57.795 48.150 8.920 1.00 20.00 ATOM 741 CD2 TYR A 904 56.420 48.136 8.955 1.00 20.00 ATOM 742 CE1 TYR A 904 56.420 48.136 8.955 1.00 20.00 ATOM 743 CE2 TYR A 904 55.429 46.115 10.223 1.00 20.00 ATOM 744 CZ TYR A 904 55.429 46.115 10.223 1.00 20.00 ATOM 744 CZ TYR A 904 55.429 48.136 8.955 1.00 20.00 ATOM 748 CZ TYR A 904 55.429 48.136 8.955 1.00 20.00 ATOM 748 CZ TYR A 904 55.429 48.136 8.955 1.00 20.00 ATOM 749 CA ALA A 905 58.503 47.742 13.931 1.00 20.00 ATOM 749 CA ALA A 905 58.503 47.772 13.931 1.00 20.00 ATOM 749 CA ALA A 905 58.503 47.772 13.931 1.00 20.00 ATOM 750 C ALA A 905 56.395 48.128 12.744 1.00 20.00 ATOM 751 O ALA A 905 56.395 48.128 12.744 1.00 20.00 ATOM 755 CB ALA A 905 56.395 48.128 12.744 1.00 20.00 ATOM 756 C PRO A 906 54.494 46.394 13.918 1.00 20.00 ATOM 755 CB ALA A 905 56.395 48.128 12.744 1.00 20.00 ATOM 755 CB PRO A 906 54.949 46.394 13.918 1.00 20.00 ATOM 755 CB PRO A 906 54.959 45.440 13.918 1.00 20.00 ATOM 756 C PRO A 906 54.959 45.440 11.54.976 1.00 20.00 ATOM 757 O PRO A 906 55.981 44.280 14.584 1.00 20.00 ATOM 758 CB PRO A 906 54.958 44.937 13.468 1.00 20.00 ATOM 759 CG PRO A 906 55.981 44.280 14.584 1.00 20.00 AT									11.465	1.00	20.00
ATOM 727 O GLU A 903 62.713 48.559 12.662 1.00 20.00 ATOM 728 CB GLU A 903 64.973 46.703 12.746 1.00 20.00 ATOM 730 CD GLU A 903 63.985 45.965 13.580 1.00 20.00 ATOM 731 0E1 GLU A 903 63.985 45.966 13.580 1.00 20.00 ATOM 732 0E2 GLU A 903 63.971 44.875 15.725 1.00 20.00 ATOM 732 0E2 GLU A 903 65.365 46.509 15.425 1.00 20.00 ATOM 734 N TYR A 904 62.115 47.514 10.767 1.00 20.00 ATOM 735 CA TYR A 904 60.707 47.846 10.758 1.00 20.00 ATOM 736 C TYR A 904 60.074 47.846 10.758 1.00 20.00 ATOM 737 0 TYR A 904 60.054 46.149 12.240 1.00 20.00 ATOM 738 CB TYR A 904 60.054 46.149 12.240 1.00 20.00 ATOM 739 CG TYR A 904 58.553 47.146 9.537 1.00 20.00 ATOM 741 CD2 TYR A 904 57.795 48.150 8.920 1.00 20.00 ATOM 741 CD2 TYR A 904 56.420 48.136 8.955 1.00 20.00 ATOM 742 CE1 TYR A 904 56.420 48.136 8.955 1.00 20.00 ATOM 744 CZ TYR A 904 55.779 47.128 9.602 1.00 20.00 ATOM 745 OH TYR A 904 55.779 47.128 9.602 1.00 20.00 ATOM 748 N. ALA A 905 56.420 48.136 8.955 1.00 20.00 ATOM 748 N. ALA A 905 56.498 46.115 10.223 1.00 20.00 ATOM 749 CA ALA A 905 58.503 47.772 13.991 1.00 20.00 ATOM 749 CA ALA A 905 58.503 47.772 13.991 1.00 20.00 ATOM 750 C ALA A 905 58.503 47.772 13.991 1.00 20.00 ATOM 751 O ALA A 905 58.503 47.770 13.991 1.00 20.00 ATOM 752 CB ALA A 905 58.503 47.772 13.991 1.00 20.00 ATOM 755 CA PRO A 906 56.395 48.128 12.744 1.00 20.00 ATOM 755 CA PRO A 906 56.395 48.128 12.744 1.00 20.00 ATOM 755 CA PRO A 906 56.395 48.128 12.744 1.00 20.00 ATOM 755 CA PRO A 906 56.341 46.572 14.317 1.00 20.00 ATOM 755 CA PRO A 906 56.395 48.128 12.744 1.00 20.00 ATOM 755 CA PRO A 906 56.395 48.128 12.744 1.00 20.00 ATOM 755 CA PRO A 906 56.395 48.128 12.744 1.00 20.00 ATOM 755 CA PRO A 906 56.395 48.128 12.744 1.00 20.00 ATOM 755 CA PRO A 906 56.395 48.128 12.744 1.00 20.00 ATOM 755 CA PRO A 906 56.395 48.128 12.744 1.00 20.00 ATOM 756 C PRO A 906 55.395 48.128 12.744 1.00 20.00 ATOM 757 O PRO A 906 52.992 45.748 15.150 1.00 20.00 ATOM 758 CB PRO A 906 56.319 45.482 15.227 1.00 20.00 ATOM 759 CG PRO A 906 52.992 45.748 15.150 1.00 20.00 ATO											
ATOM 728 CB GLU A 903 64.973 46.703 12.746 1.00 20.00 ATOM 729 CG GLU A 903 63.985 45.965 13.580 1.00 20.00 ATOM 731 0E1 GLU A 903 63.971 44.875 15.725 1.00 20.00 ATOM 732 0E2 GLU A 903 65.365 46.509 15.425 1.00 20.00 ATOM 734 N TYR A 904 62.115 47.514 10.767 1.00 20.00 ATOM 735 CA TYR A 904 60.707 47.846 10.758 1.00 20.00 ATOM 736 C TYR A 904 60.054 46.149 12.240 1.00 20.00 ATOM 737 0 TYR A 904 60.054 46.149 12.240 1.00 20.00 ATOM 737 0 TYR A 904 60.054 46.149 12.240 1.00 20.00 ATOM 739 CG TYR A 904 60.078 47.204 9.521 1.00 20.00 ATOM 739 CG TYR A 904 58.553 47.146 9.537 1.00 20.00 ATOM 740 CD1 TYR A 904 57.868 46.125 10.188 1.00 20.00 ATOM 741 CD2 TYR A 904 56.420 48.136 8.920 1.00 20.00 ATOM 742 CE1 TYR A 904 56.420 48.136 8.955 1.00 20.00 ATOM 743 CE2 TYR A 904 56.420 48.136 8.955 1.00 20.00 ATOM 745 OH TYR A 904 55.779 47.128 9.602 1.00 20.00 ATOM 745 OH TYR A 904 56.420 48.136 8.955 1.00 20.00 ATOM 745 OH TYR A 904 56.420 48.136 8.955 1.00 20.00 ATOM 745 OH TYR A 904 56.420 48.136 8.955 1.00 20.00 ATOM 745 OH TYR A 904 56.420 48.136 8.955 1.00 20.00 ATOM 745 OH TYR A 904 56.420 48.136 8.955 1.00 20.00 ATOM 745 OH TYR A 904 56.420 48.136 8.955 1.00 20.00 ATOM 745 OH TYR A 904 56.420 48.136 8.955 1.00 20.00 ATOM 745 OH TYR A 904 56.420 48.136 8.955 1.00 20.00 ATOM 745 OH TYR A 904 56.420 48.136 8.955 1.00 20.00 ATOM 745 OH TYR A 904 56.420 48.136 8.955 1.00 20.00 ATOM 745 OH TYR A 905 58.503 47.772 13.931 1.00 20.00 ATOM 745 OH TYR A 905 58.503 47.772 13.931 1.00 20.00 ATOM 750 C ALA A 905 58.503 47.772 13.931 1.00 20.00 ATOM 750 C ALA A 905 58.503 47.772 13.9931 1.00 20.00 ATOM 750 C ALA A 905 58.503 47.772 13.9931 1.00 20.00 ATOM 755 CA ALA A 905 58.503 47.772 13.9931 1.00 20.00 ATOM 755 CA PRO A 906 56.341 46.572 14.317 1.00 20.00 ATOM 755 CA PRO A 906 56.341 46.572 14.317 1.00 20.00 ATOM 755 CA PRO A 906 55.981 48.816 14.976 1.00 20.00 ATOM 755 CA PRO A 906 55.981 44.280 14.584 1.00 20.00 ATOM 756 C PRO A 906 55.981 44.280 14.584 1.00 20.00 ATOM 759 CG PRO A 906 55.981 44.280 14.584 1.00 20.00 ATOM 759											
ATOM 729 CG GLU A 903 63.985 45.965 13.580 1.00 20.00 ATOM 730 CD GLU A 903 64.471 45.766 15.006 1.00 20.00 ATOM 731 OE1 GLU A 903 65.365 46.509 15.425 1.00 20.00 ATOM 732 OE2 GLU A 903 65.365 46.509 15.425 1.00 20.00 ATOM 734 N TYR A 904 62.115 47.514 10.767 1.00 20.00 ATOM 735 CA TYR A 904 60.707 47.846 10.758 1.00 20.00 ATOM 736 C TYR A 904 60.707 47.846 10.758 1.00 20.00 ATOM 737 O TYR A 904 60.054 46.149 12.240 1.00 20.00 ATOM 738 CB TYR A 904 60.078 47.328 11.989 1.00 20.00 ATOM 739 CG TYR A 904 58.553 47.146 9.537 1.00 20.00 ATOM 740 CD1 TYR A 904 58.553 47.146 9.537 1.00 20.00 ATOM 741 CD2 TYR A 904 57.795 48.150 8.920 1.00 20.00 ATOM 742 CE1 TYR A 904 56.420 48.136 8.955 1.00 20.00 ATOM 743 CE2 TYR A 904 56.420 48.136 8.955 1.00 20.00 ATOM 744 CZ TYR A 904 56.420 48.136 8.955 1.00 20.00 ATOM 745 OH TYR A 904 55.779 47.128 9.602 1.00 20.00 ATOM 748 N. ALA A 905 59.270 48.183 12.727 1.00 20.00 ATOM 749 CA ALA A 905 59.270 48.183 12.727 1.00 20.00 ATOM 749 CA ALA A 905 59.270 48.183 12.727 1.00 20.00 ATOM 750 C ALA A 905 56.395 47.506 13.620 1.00 20.00 ATOM 755 CB ALA A 905 56.395 48.128 12.744 1.00 20.00 ATOM 755 CB ALA A 905 56.395 48.128 12.744 1.00 20.00 ATOM 755 CB ALA A 905 56.395 48.128 12.744 1.00 20.00 ATOM 755 CB ALA A 905 56.395 48.128 12.744 1.00 20.00 ATOM 755 CB ALA A 905 56.395 48.128 12.744 1.00 20.00 ATOM 755 CB ALA A 905 56.395 48.128 12.744 1.00 20.00 ATOM 755 CB ALA A 905 56.395 48.128 12.744 1.00 20.00 ATOM 755 CB ALA A 905 56.395 48.128 12.744 1.00 20.00 ATOM 755 CB ALA A 905 56.395 48.128 12.744 1.00 20.00 ATOM 755 CB ALA A 905 56.395 48.128 12.744 1.00 20.00 ATOM 755 CB ALA A 905 56.395 48.128 12.744 1.00 20.00 ATOM 755 CB ALA A 905 56.395 48.128 12.744 1.00 20.00 ATOM 755 CB ALA A 905 56.395 48.128 12.744 1.00 20.00 ATOM 756 C PRO A 906 52.992 45.748 15.150 1.00 20.00 ATOM 757 O PRO A 906 52.992 45.748 15.150 1.00 20.00 ATOM 759 CG PRO A 906 55.981 44.280 14.584 1.00 20.00 ATOM 759 CG PRO A 906 55.981 44.280 14.584 1.00 20.00 ATOM 750 CD PRO A 906 55.981 44.280 14.584 1.00 20.00 A											
ATOM 730 CD GLU A 903 64.471 45.766 15.006 1.00 20.00 ATOM 731 OE1 GLU A 903 63.971 44.875 15.725 1.00 20.00 ATOM 732 OE2 GLU A 903 65.365 46.509 15.425 1.00 20.00 ATOM 734 N TYR A 904 62.115 47.514 10.767 1.00 20.00 ATOM 735 CA TYR A 904 60.707 47.846 10.758 1.00 20.00 ATOM 736 C TYR A 904 60.707 47.846 10.758 1.00 20.00 ATOM 737 O TYR A 904 60.054 46.149 12.240 1.00 20.00 ATOM 738 CB TYR A 904 60.054 46.149 12.240 1.00 20.00 ATOM 739 CG TYR A 904 58.553 47.146 9.537 1.00 20.00 ATOM 740 CD1 TYR A 904 57.795 48.150 8.920 1.00 20.00 ATOM 741 CD2 TYR A 904 57.795 48.150 8.920 1.00 20.00 ATOM 742 CE1 TYR A 904 56.420 48.136 8.955 1.00 20.00 ATOM 743 CE2 TYR A 904 55.779 47.128 9.602 1.00 20.00 ATOM 744 CZ TYR A 904 55.779 47.128 9.602 1.00 20.00 ATOM 748 N ALA A 905 59.270 48.183 12.727 1.00 20.00 ATOM 749 CA ALA A 905 56.395 48.128 12.744 1.00 20.00 ATOM 750 C ALA A 905 56.395 48.128 12.744 1.00 20.00 ATOM 751 O ALA A 905 56.395 48.128 12.744 1.00 20.00 ATOM 754 N PRO A 906 56.341 46.572 14.317 1.00 20.00 ATOM 755 CA PRO A 906 56.341 46.572 14.317 1.00 20.00 ATOM 755 CA PRO A 906 56.395 48.128 12.744 1.00 20.00 ATOM 755 CA PRO A 906 56.395 48.128 12.744 1.00 20.00 ATOM 755 CA PRO A 906 56.395 48.128 12.744 1.00 20.00 ATOM 755 CA PRO A 906 56.395 48.128 12.744 1.00 20.00 ATOM 755 CA PRO A 906 56.395 48.128 12.744 1.00 20.00 ATOM 756 C PRO A 906 56.395 48.128 12.744 1.00 20.00 ATOM 757 O PRO A 906 52.992 45.748 15.150 1.00 20.00 ATOM 759 CG PRO A 906 52.992 45.748 15.150 1.00 20.00 ATOM 759 CG PRO A 906 54.958 44.937 13.468 1.00 20.00 ATOM 759 CG PRO A 906 55.991 47.861 15.450 1.00 20.00 ATOM 759 CG PRO A 906 55.992 47.841 15.450 1.00 20.00 ATOM 759 CG PRO A 906 56.791 45.882 15.227 1.00 20.00 ATOM 759 CG PRO A 906 56.595 48.251 16.349 1.00 20.00 ATOM 759 CG PRO A 906 56.595 48.251 16.349 1.00 20.00 ATOM 759 CG PRO A 906 55.992 47.841 15.450 1.00 20.00 ATOM 760 CD PRO A 906 56.791 45.882 15.227 1.00 20.00 ATOM 760 CD PRO A 906 56.595 48.251 16.349 1.00 20.00 ATOM 761 N HIS A 907 53.729 47.841 15.450 1.00 20.00 ATOM											
ATOM 731 OE1 GLU A 903 63.971 44.875 15.725 1.00 20.00 ATOM 732 OE2 GLU A 903 65.365 46.509 15.425 1.00 20.00 ATOM 734 N TYR A 904 62.115 47.514 10.767 1.00 20.00 ATOM 735 CA TYR A 904 60.707 47.846 10.758 1.00 20.00 ATOM 736 C TYR A 904 60.707 47.846 10.758 1.00 20.00 ATOM 737 O TYR A 904 60.054 46.149 12.240 1.00 20.00 ATOM 738 CB TYR A 904 60.054 46.149 12.240 1.00 20.00 ATOM 739 CG TYR A 904 60.054 46.149 12.240 1.00 20.00 ATOM 739 CG TYR A 904 58.553 47.146 9.537 1.00 20.00 ATOM 740 CD1 TYR A 904 58.553 47.146 9.537 1.00 20.00 ATOM 741 CD2 TYR A 904 57.795 48.150 8.920 1.00 20.00 ATOM 741 CD2 TYR A 904 56.420 48.136 8.955 1.00 20.00 ATOM 742 CE1 TYR A 904 56.420 48.136 8.955 1.00 20.00 ATOM 743 CE2 TYR A 904 55.779 47.128 9.602 1.00 20.00 ATOM 744 CZ TYR A 904 55.779 47.128 9.602 1.00 20.00 ATOM 745 OH TYR A 904 55.779 47.128 9.602 1.00 20.00 ATOM 748 N. ALA A 905 59.270 48.183 12.727 1.00 20.00 ATOM 749 CA ALA A 905 58.503 47.772 13.931 1.00 20.00 ATOM 749 CA ALA A 905 56.987 47.506 13.620 1.00 20.00 ATOM 750 C ALA A 905 56.395 48.128 12.744 1.00 20.00 ATOM 751 O ALA A 905 56.395 48.128 12.744 1.00 20.00 ATOM 752 CB ALA A 905 56.395 48.128 12.744 1.00 20.00 ATOM 755 CA PRO A 906 56.341 46.572 14.317 1.00 20.00 ATOM 755 CA PRO A 906 54.949 48.816 14.976 1.00 20.00 ATOM 755 CA PRO A 906 53.803 46.643 14.992 1.00 20.00 ATOM 755 CA PRO A 906 53.803 46.643 14.992 1.00 20.00 ATOM 757 O PRO A 906 52.992 45.748 15.150 1.00 20.00 ATOM 758 CB PRO A 906 52.992 45.748 15.150 1.00 20.00 ATOM 759 CG PRO A 906 52.992 45.748 15.150 1.00 20.00 ATOM 759 CG PRO A 906 55.981 44.280 14.584 1.00 20.00 ATOM 759 CG PRO A 906 55.981 44.280 14.584 1.00 20.00 ATOM 759 CG PRO A 906 55.991 45.482 15.227 1.00 20.00 ATOM 759 CG PRO A 906 55.991 45.482 15.227 1.00 20.00 ATOM 759 CG PRO A 906 52.992 45.748 15.150 1.00 20.00 ATOM 759 CG PRO A 906 52.992 45.748 15.150 1.00 20.00 ATOM 759 CG PRO A 906 52.992 45.748 15.150 1.00 20.00 ATOM 759 CG PRO A 906 52.992 45.748 15.150 1.00 20.00 ATOM 759 CG PRO A 906 52.992 45.748 15.150 1.00 20.00 A											
ATOM 732 OE2 GLU A 903 65.365 46.509 15.425 1.00 20.00 ATOM 734 N TYR A 904 62.115 47.514 10.767 1.00 20.00 ATOM 735 CA TYR A 904 60.707 47.846 10.758 1.00 20.00 ATOM 736 C TYR A 904 59.985 47.328 11.989 1.00 20.00 ATOM 737 O TYR A 904 60.054 46.149 12.240 1.00 20.00 ATOM 738 CB TYR A 904 60.054 46.149 12.240 1.00 20.00 ATOM 739 CG TYR A 904 60.078 47.204 9.521 1.00 20.00 ATOM 740 CD1 TYR A 904 58.553 47.146 9.537 1.00 20.00 ATOM 741 CD2 TYR A 904 57.795 48.150 8.920 1.00 20.00 ATOM 741 CD2 TYR A 904 57.868 46.125 10.188 1.00 20.00 ATOM 742 CE1 TYR A 904 56.420 48.136 8.955 1.00 20.00 ATOM 743 CE2 TYR A 904 56.420 48.136 8.955 1.00 20.00 ATOM 744 CZ TYR A 904 56.420 48.136 8.955 1.00 20.00 ATOM 745 OH TYR A 904 56.498 46.115 10.223 1.00 20.00 ATOM 748 N. ALA A 905 55.779 47.128 9.602 1.00 20.00 ATOM 748 N. ALA A 905 58.503 47.772 13.931 1.00 20.00 ATOM 749 CA ALA A 905 58.503 47.772 13.931 1.00 20.00 ATOM 750 C ALA A 905 58.503 47.772 13.931 1.00 20.00 ATOM 750 C ALA A 905 56.395 48.128 12.744 1.00 20.00 ATOM 751 O ALA A 905 56.395 48.128 12.744 1.00 20.00 ATOM 752 CB ALA A 905 56.395 48.128 12.744 1.00 20.00 ATOM 755 CA PRO A 906 56.341 46.572 14.317 1.00 20.00 ATOM 755 CA PRO A 906 54.949 46.394 13.918 1.00 20.00 ATOM 755 CA PRO A 906 54.959 48.128 12.744 1.00 20.00 ATOM 755 CA PRO A 906 54.959 48.128 15.150 1.00 20.00 ATOM 755 CA PRO A 906 54.959 48.128 15.150 1.00 20.00 ATOM 757 O PRO A 906 54.959 48.128 15.150 1.00 20.00 ATOM 757 O PRO A 906 54.959 48.128 15.150 1.00 20.00 ATOM 757 O PRO A 906 54.959 48.391 15.150 1.00 20.00 ATOM 758 CB PRO A 906 55.991 44.280 14.584 1.00 20.00 ATOM 759 CG PRO A 906 55.991 44.280 14.584 1.00 20.00 ATOM 750 CB PRO A 906 55.991 44.280 14.584 1.00 20.00 ATOM 750 CB PRO A 906 55.991 44.280 14.584 1.00 20.00 ATOM 760 CD PRO A 906 56.719 45.482 15.227 1.00 20.00 ATOM 760 CD PRO A 906 56.719 45.482 15.227 1.00 20.00 ATOM 760 CD PRO A 906 56.719 45.482 15.227 1.00 20.00 ATOM 760 CD PRO A 906 56.719 47.841 15.450 1.00 20.00 ATOM 761 N HIS A 907 53.729 47.841 15.450 1.00 20.00 ATOM											
ATOM 734 N TYR A 904 62.115 47.514 10.767 1.00 20.00 ATOM 735 CA TYR A 904 60.707 47.846 10.758 1.00 20.00 ATOM 736 C TYR A 904 60.0707 47.846 10.758 1.00 20.00 ATOM 737 O TYR A 904 60.054 46.149 12.240 1.00 20.00 ATOM 738 CB TYR A 904 60.054 46.149 12.240 1.00 20.00 ATOM 739 CG TYR A 904 60.054 46.149 12.240 1.00 20.00 ATOM 739 CG TYR A 904 58.553 47.146 9.537 1.00 20.00 ATOM 740 CD1 TYR A 904 57.795 48.150 8.920 1.00 20.00 ATOM 741 CD2 TYR A 904 57.795 48.150 8.920 1.00 20.00 ATOM 742 CE1 TYR A 904 56.420 48.136 8.955 1.00 20.00 ATOM 742 CE1 TYR A 904 56.420 48.136 8.955 1.00 20.00 ATOM 744 CZ TYR A 904 56.420 48.136 8.955 1.00 20.00 ATOM 744 CZ TYR A 904 56.498 46.115 10.223 1.00 20.00 ATOM 745 OH TYR A 904 55.779 47.128 9.602 1.00 20.00 ATOM 748 N ALA A 905 59.270 48.183 12.727 1.00 20.00 ATOM 749 CA ALA A 905 59.270 48.183 12.727 1.00 20.00 ATOM 750 C ALA A 905 56.395 47.702 13.620 1.00 20.00 ATOM 751 O ALA A 905 56.395 47.702 13.620 1.00 20.00 ATOM 751 O ALA A 905 56.395 48.128 12.744 1.00 20.00 ATOM 752 CB ALA A 905 56.395 48.128 12.744 1.00 20.00 ATOM 755 CA PRO A 906 56.341 46.572 14.317 1.00 20.00 ATOM 755 CA PRO A 906 56.341 46.572 14.317 1.00 20.00 ATOM 755 CA PRO A 906 54.949 46.394 13.918 1.00 20.00 ATOM 755 CB PRO A 906 52.992 45.748 15.150 1.00 20.00 ATOM 755 CB PRO A 906 52.992 45.748 15.150 1.00 20.00 ATOM 755 CB PRO A 906 53.803 46.643 14.902 1.00 20.00 ATOM 755 CB PRO A 906 52.992 45.748 15.150 1.00 20.00 ATOM 755 CB PRO A 906 54.958 44.937 13.468 1.00 20.00 ATOM 755 CB PRO A 906 54.958 44.937 13.468 1.00 20.00 ATOM 755 CB PRO A 906 55.991 44.280 14.584 1.00 20.00 ATOM 755 CB PRO A 906 56.719 45.482 15.227 1.00 20.00 ATOM 750 CB PRO A 906 56.719 45.482 15.227 1.00 20.00 ATOM 750 CB PRO A 906 56.719 45.482 15.227 1.00 20.00 ATOM 760 CD PRO A 906 56.719 45.482 15.227 1.00 20.00 ATOM 762 CA HIS A 907 53.729 47.841 15.4550 1.00 20.00 ATOM 762 CA HIS A 907 53.729 47.841 15.4550 1.00 20.00 ATOM 762 CA HIS A 907 52.966 49.700 16.468 1.00 20.00 ATOM 763 C HIS A 907 52.966 49.700 16.468 1.00 20.00											
ATOM 735 CA TYR A 904 60.707 47.846 10.758 1.00 20.00 ATOM 736 C TYR A 904 60.054 46.149 12.240 1.00 20.00 ATOM 737 O TYR A 904 60.078 47.204 9.521 1.00 20.00 ATOM 739 CG TYR A 904 58.553 47.146 9.537 1.00 20.00 ATOM 740 CD1 TYR A 904 57.795 48.150 8.920 1.00 20.00 ATOM 741 CD2 TYR A 904 56.420 48.136 8.955 1.00 20.00 ATOM 742 CE1 TYR A 904 56.420 48.136 8.955 1.00 20.00 ATOM 743 CE2 TYR A 904 56.420 48.136 8.955 1.00 20.00 ATOM 745 OH TYR A 904 55.779 47.128 9.602 1.00 20.00 ATOM 745 OH TYR A 904 55.779 47.128 9.602 1.00 20.00 ATOM 748 N. ALA A 905 59.270 48.183 12.727 1.00 20.00 ATOM 749 CA ALA A 905 59.270 48.183 12.727 1.00 20.00 ATOM 750 C ALA A 905 56.987 47.506 13.620 1.00 20.00 ATOM 751 O ALA A 905 56.395 48.128 12.744 1.00 20.00 ATOM 752 CB ALA A 905 56.395 48.128 12.744 1.00 20.00 ATOM 755 CA PRO A 906 56.341 46.572 14.317 1.00 20.00 ATOM 755 CA PRO A 906 56.341 46.572 14.317 1.00 20.00 ATOM 756 C PRO A 906 54.949 46.394 13.918 1.00 20.00 ATOM 757 O PRO A 906 54.949 46.394 13.918 1.00 20.00 ATOM 758 CB PRO A 906 54.949 46.394 13.918 1.00 20.00 ATOM 758 CB PRO A 906 54.959 45.748 15.150 1.00 20.00 ATOM 758 CB PRO A 906 54.959 45.748 15.150 1.00 20.00 ATOM 759 CG PRO A 906 54.959 45.748 15.150 1.00 20.00 ATOM 758 CB PRO A 906 54.959 45.748 15.150 1.00 20.00 ATOM 759 CG PRO A 906 54.959 45.748 15.150 1.00 20.00 ATOM 759 CG PRO A 906 54.959 45.748 15.150 1.00 20.00 ATOM 759 CG PRO A 906 54.958 44.280 14.584 1.00 20.00 ATOM 750 CD PRO A 906 56.719 45.842 15.227 1.00 20.00 ATOM 750 CD PRO A 906 56.719 45.842 15.227 1.00 20.00 ATOM 760 CD PRO A 906 56.719 45.842 15.227 1.00 20.00 ATOM 762 CA HIS A 907 53.729 47.841 15.450 1.00 20.00 ATOM 762 CA HIS A 907 53.729 47.841 15.450 1.00 20.00 ATOM 762 CA HIS A 907 53.729 47.841 15.450 1.00 20.00 ATOM 763 C HIS A 907 52.966 49.700 16.468 1.00 20.00 ATOM 763 C HIS A 907 52.966 49.700 16.468 1.00 20.00 ATOM 763 C HIS A 907 52.966 49.700 16.468 1.00 20.00 ATOM 763 C HIS A 907 52.966 49.700 16.468 1.00 20.00 ATOM 763 C HIS A 907 52.966 49.700 16.468 1.00 20.00 ATOM 763											
ATOM 736 C TYR A 904 59.985 47.328 11.989 1.00 20.00 ATOM 737 O TYR A 904 60.054 46.149 12.240 1.00 20.00 ATOM 738 CB TYR A 904 60.078 47.204 9.521 1.00 20.00 ATOM 739 CG TYR A 904 58.553 47.146 9.537 1.00 20.00 ATOM 740 CD1 TYR A 904 57.795 48.150 8.920 1.00 20.00 ATOM 741 CD2 TYR A 904 57.7868 46.125 10.188 1.00 20.00 ATOM 742 CE1 TYR A 904 56.420 48.136 8.955 1.00 20.00 ATOM 742 CE1 TYR A 904 56.420 48.136 8.955 1.00 20.00 ATOM 743 CE2 TYR A 904 55.779 47.128 9.602 1.00 20.00 ATOM 744 CZ TYR A 904 55.779 47.128 9.602 1.00 20.00 ATOM 745 OH TYR A 904 55.779 47.128 9.602 1.00 20.00 ATOM 748 N ALA A 905 59.270 48.183 12.727 1.00 20.00 ATOM 749 CA ALA A 905 58.503 47.772 13.931 1.00 20.00 ATOM 750 C ALA A 905 56.395 48.183 12.727 1.00 20.00 ATOM 751 O ALA A 905 56.395 48.128 12.744 1.00 20.00 ATOM 752 CB ALA A 905 56.395 48.128 12.744 1.00 20.00 ATOM 754 N PRO A 906 56.341 46.572 14.317 1.00 20.00 ATOM 755 CA PRO A 906 56.341 46.572 14.317 1.00 20.00 ATOM 756 C PRO A 906 52.992 45.748 15.150 1.00 20.00 ATOM 757 O PRO A 906 52.992 45.748 15.150 1.00 20.00 ATOM 757 O PRO A 906 52.992 45.748 15.150 1.00 20.00 ATOM 758 CB PRO A 906 54.949 46.394 13.918 1.00 20.00 ATOM 759 CG PRO A 906 55.981 44.280 14.584 1.00 20.00 ATOM 759 CG PRO A 906 55.981 44.280 14.584 1.00 20.00 ATOM 759 CG PRO A 906 55.981 44.280 14.584 1.00 20.00 ATOM 759 CG PRO A 906 55.981 44.280 14.584 1.00 20.00 ATOM 760 CD PRO A 906 56.719 45.82 15.227 1.00 20.00 ATOM 761 N HIS A 907 53.729 47.841 15.450 1.00 20.00 ATOM 761 N HIS A 907 52.655 48.251 16.349 1.00 20.00 ATOM 762 CA HIS A 907 52.655 48.251 16.349 1.00 20.00 ATOM 762 CA HIS A 907 52.655 48.251 16.468 1.00 20.00 ATOM 763 C HIS A 907 52.655 48.251 16.468 1.00 20.00 ATOM 762 CA HIS A 907 52.655 48.251 16.468 1.00 20.00 ATOM 763 C HIS A 907 52.655 48.251 16.468 1.00 20.00 ATOM 763 C HIS A 907 52.655 48.251 16.468 1.00 20.00 ATOM 763 C HIS A 907 52.655 48.251 16.468 1.00 20.00 ATOM 763 C HIS A 907 52.655 48.251 16.468 1.00 20.00 ATOM 763 C HIS A 907 52.655 48.251 16.468 1.00 20.00 ATOM 763 C HIS											
ATOM 737 O TYR A 904 60.054 46.149 12.240 1.00 20.00 ATOM 738 CB TYR A 904 60.078 47.204 9.521 1.00 20.00 ATOM 739 CG TYR A 904 58.553 47.146 9.537 1.00 20.00 ATOM 740 CD1 TYR A 904 57.795 48.150 8.920 1.00 20.00 ATOM 741 CD2 TYR A 904 57.868 46.125 10.188 1.00 20.00 ATOM 742 CE1 TYR A 904 56.420 48.136 8.955 1.00 20.00 ATOM 743 CE2 TYR A 904 56.420 48.136 8.955 1.00 20.00 ATOM 744 CZ TYR A 904 55.779 47.128 9.602 1.00 20.00 ATOM 745 OH TYR A 904 55.779 47.128 9.602 1.00 20.00 ATOM 748 N. ALA A 905 59.270 48.183 12.727 1.00 20.00 ATOM 749 CA ALA A 905 58.503 47.772 13.931 1.00 20.00 ATOM 750 C ALA A 905 56.987 47.506 13.620 1.00 20.00 ATOM 751 O ALA A 905 56.395 48.128 12.744 1.00 20.00 ATOM 752 CB ALA A 905 58.649 48.186 14.976 1.00 20.00 ATOM 755 CA PRO A 906 56.341 46.572 14.317 1.00 20.00 ATOM 755 CA PRO A 906 54.949 46.394 13.918 1.00 20.00 ATOM 756 C PRO A 906 54.949 46.394 13.918 1.00 20.00 ATOM 757 O PRO A 906 54.949 46.394 13.918 1.00 20.00 ATOM 757 O PRO A 906 52.992 45.748 15.150 1.00 20.00 ATOM 758 CB PRO A 906 55.981 44.280 14.584 1.00 20.00 ATOM 759 CG PRO A 906 55.981 44.280 14.584 1.00 20.00 ATOM 759 CG PRO A 906 55.981 44.280 14.584 1.00 20.00 ATOM 760 CD PRO A 906 56.719 45.482 15.227 1.00 20.00 ATOM 760 CD PRO A 906 56.719 45.482 15.227 1.00 20.00 ATOM 761 N HIS A 907 53.729 47.841 15.450 1.00 20.00 ATOM 762 CA HIS A 907 52.966 49.700 16.468 1.00 20.00 ATOM 762 CA HIS A 907 52.966 49.700 16.468 1.00 20.00 ATOM 762 CA HIS A 907 52.966 49.700 16.468 1.00 20.00 ATOM 762 CA HIS A 907 52.966 49.700 16.468 1.00 20.00 ATOM 763 C HIS A 907 52.966 49.700 16.468 1.00 20.00											
ATOM 738 CB TYR A 904 60.078 47.204 9.521 1.00 20.00 ATOM 739 CG TYR A 904 58.553 47.146 9.537 1.00 20.00 ATOM 740 CD1 TYR A 904 57.795 48.150 8.920 1.00 20.00 ATOM 741 CD2 TYR A 904 57.868 46.125 10.188 1.00 20.00 ATOM 742 CE1 TYR A 904 56.420 48.136 8.955 1.00 20.00 ATOM 743 CE2 TYR A 904 56.498 46.115 10.223 1.00 20.00 ATOM 744 CZ TYR A 904 55.779 47.128 9.602 1.00 20.00 ATOM 745 OH TYR A 904 54.405 47.149 9.622 1.00 20.00 ATOM 748 N. ALA A 905 59.270 48.183 12.727 1.00 20.00 ATOM 749 CA ALA A 905 58.503 47.772 13.931 1.00 20.00 ATOM 750 C ALA A 905 56.987 47.506 13.620 1.00 20.00 ATOM 751 O ALA A 905 56.395 48.128 12.744 1.00 20.00 ATOM 752 CB ALA A 905 58.649 48.816 14.976 1.00 20.00 ATOM 754 N PRO A 906 56.341 46.572 14.317 1.00 20.00 ATOM 755 CA PRO A 906 54.949 46.394 13.918 1.00 20.00 ATOM 756 C PRO A 906 54.949 46.394 13.918 1.00 20.00 ATOM 757 O PRO A 906 52.992 45.748 15.150 1.00 20.00 ATOM 758 CB PRO A 906 54.958 44.280 14.584 1.00 20.00 ATOM 759 CG PRO A 906 55.981 44.280 14.584 1.00 20.00 ATOM 759 CG PRO A 906 55.981 44.280 14.584 1.00 20.00 ATOM 750 CD PRO A 906 55.981 44.280 14.584 1.00 20.00 ATOM 750 CD PRO A 906 55.981 44.280 14.584 1.00 20.00 ATOM 750 CD PRO A 906 55.981 44.280 14.584 1.00 20.00 ATOM 750 CD PRO A 906 55.981 44.280 14.584 1.00 20.00 ATOM 750 CD PRO A 906 55.981 44.280 14.584 1.00 20.00 ATOM 760 CD PRO A 906 55.981 44.280 14.584 1.00 20.00 ATOM 761 N HIS A 907 53.729 47.841 15.450 1.00 20.00 ATOM 762 CA HIS A 907 52.655 48.251 16.349 1.00 20.00 ATOM 762 CA HIS A 907 52.966 49.700 16.468 1.00 20.00											
ATOM 739 CG TYR A 904 58.553 47.146 9.537 1.00 20.00 ATOM 740 CD1 TYR A 904 57.795 48.150 8.920 1.00 20.00 ATOM 741 CD2 TYR A 904 57.868 46.125 10.188 1.00 20.00 ATOM 742 CE1 TYR A 904 56.420 48.136 8.955 1.00 20.00 ATOM 743 CE2 TYR A 904 56.498 46.115 10.223 1.00 20.00 ATOM 744 CZ TYR A 904 55.779 47.128 9.602 1.00 20.00 ATOM 745 OH TYR A 904 55.779 47.128 9.602 1.00 20.00 ATOM 748 N. ALA A 905 59.270 48.183 12.727 1.00 20.00 ATOM 749 CA ALA A 905 58.503 47.772 13.931 1.00 20.00 ATOM 750 C ALA A 905 56.395 48.128 12.744 1.00 20.00 ATOM 751 O ALA A 905 56.395 48.128 12.744 1.00 20.00 ATOM 752 CB ALA A 905 56.395 48.128 12.744 1.00 20.00 ATOM 754 N PRO A 906 56.341 46.572 14.317 1.00 20.00 ATOM 755 CA PRO A 906 54.949 46.394 13.918 1.00 20.00 ATOM 756 C PRO A 906 54.949 46.394 13.918 1.00 20.00 ATOM 757 O PRO A 906 52.992 45.748 15.150 1.00 20.00 ATOM 758 CB PRO A 906 54.958 44.937 13.468 1.00 20.00 ATOM 759 CG PRO A 906 55.981 44.280 14.584 1.00 20.00 ATOM 759 CG PRO A 906 55.981 44.280 14.584 1.00 20.00 ATOM 750 CD PRO A 906 55.981 44.280 14.584 1.00 20.00 ATOM 750 CD PRO A 906 55.981 44.280 14.584 1.00 20.00 ATOM 750 CD PRO A 906 55.981 44.280 14.584 1.00 20.00 ATOM 750 CD PRO A 906 55.981 14.280 14.584 1.00 20.00 ATOM 750 CD PRO A 906 55.981 14.280 14.584 1.00 20.00 ATOM 761 N HIS A 907 53.729 47.841 15.450 1.00 20.00 ATOM 762 CA HIS A 907 52.655 48.251 16.349 1.00 20.00 ATOM 762 CA HIS A 907 52.655 48.251 16.349 1.00 20.00 ATOM 763 C HIS A 907 52.655 48.251 16.349 1.00 20.00 ATOM 763 C HIS A 907 52.655 48.251 16.349 1.00 20.00 ATOM 763 C HIS A 907 52.655 48.251 16.349 1.00 20.00 ATOM 763 C HIS A 907 52.655 48.251 16.349 1.00 20.00 ATOM 763 C HIS A 907 52.655 48.251 16.349 1.00 20.00 ATOM 763 C HIS A 907 52.655 48.251 16.349 1.00 20.00 ATOM 763 C HIS A 907 52.655 48.251 16.349 1.00 20.00 ATOM 763 C HIS A 907 52.655 48.251 16.349 1.00 20.00 ATOM 763 C HIS A 907 52.655 48.251 16.349 1.00 20.00 ATOM 763 C HIS A 907 52.655 48.251 16.349 1.00 20.00 ATOM 763 C HIS A 907 52.655 48.251 16.349 1.00 20.00 ATOM 763 C H											
ATOM 740 CD1 TYR A 904 57.795 48.150 8.920 1.00 20.00 ATOM 741 CD2 TYR A 904 57.868 46.125 10.188 1.00 20.00 ATOM 742 CE1 TYR A 904 56.420 48.136 8.955 1.00 20.00 ATOM 743 CE2 TYR A 904 56.498 46.115 10.223 1.00 20.00 ATOM 744 CZ TYR A 904 55.779 47.128 9.602 1.00 20.00 ATOM 745 OH TYR A 904 54.405 47.149 9.622 1.00 20.00 ATOM 748 N. ALA A 905 59.270 48.183 12.727 1.00 20.00 ATOM 749 CA ALA A 905 58.503 47.772 13.931 1.00 20.00 ATOM 750 C ALA A 905 56.395 48.128 12.744 1.00 20.00 ATOM 751 O ALA A 905 56.395 48.128 12.744 1.00 20.00 ATOM 752 CB ALA A 905 56.395 48.128 12.744 1.00 20.00 ATOM 754 N PRO A 906 56.341 46.572 14.317 1.00 20.00 ATOM 755 CA PRO A 906 54.949 46.394 13.918 1.00 20.00 ATOM 756 C PRO A 906 53.803 46.643 14.902 1.00 20.00 ATOM 757 O PRO A 906 53.803 46.643 14.902 1.00 20.00 ATOM 758 CB PRO A 906 54.949 46.394 13.918 1.00 20.00 ATOM 757 O PRO A 906 52.992 45.748 15.150 1.00 20.00 ATOM 759 CG PRO A 906 54.959 45.748 15.150 1.00 20.00 ATOM 759 CG PRO A 906 54.958 44.937 13.468 1.00 20.00 ATOM 759 CG PRO A 906 55.981 44.280 14.584 1.00 20.00 ATOM 759 CG PRO A 906 55.981 44.280 14.584 1.00 20.00 ATOM 760 CD PRO A 906 56.719 45.482 15.227 1.00 20.00 ATOM 761 N HIS A 907 53.729 47.841 15.450 1.00 20.00 ATOM 762 CA HIS A 907 52.655 48.251 16.349 1.00 20.00 ATOM 762 CA HIS A 907 52.655 48.251 16.349 1.00 20.00 ATOM 763 C HIS A 907 52.966 49.700 16.468 1.00 20.00											
ATOM 741 CD2 TYR A 904 57.868 46.125 10.188 1.00 20.00 ATOM 742 CE1 TYR A 904 56.420 48.136 8.955 1.00 20.00 ATOM 743 CE2 TYR A 904 56.498 46.115 10.223 1.00 20.00 ATOM 744 CZ TYR A 904 55.779 47.128 9.602 1.00 20.00 ATOM 745 OH TYR A 904 54.405 47.149 9.622 1.00 20.00 ATOM 748 N. ALA A 905 59.270 48.183 12.727 1.00 20.00 ATOM 749 CA ALA A 905 58.503 47.772 13.931 1.00 20.00 ATOM 750 C ALA A 905 56.987 47.506 13.620 1.00 20.00 ATOM 751 O ALA A 905 56.395 48.128 12.744 1.00 20.00 ATOM 752 CB ALA A 905 58.649 48.816 14.976 1.00 20.00 ATOM 754 N PRO A 906 56.341 46.572 14.317 1.00 20.00 ATOM 755 CA PRO A 906 54.949 46.394 13.918 1.00 20.00 ATOM 756 C PRO A 906 53.803 46.643 14.902 1.00 20.00 ATOM 757 O PRO A 906 52.992 45.748 15.150 1.00 20.00 ATOM 758 CB PRO A 906 54.959 45.748 15.150 1.00 20.00 ATOM 758 CB PRO A 906 54.959 46.8394 13.918 1.00 20.00 ATOM 758 CB PRO A 906 54.959 45.748 15.150 1.00 20.00 ATOM 758 CB PRO A 906 54.959 45.748 15.150 1.00 20.00 ATOM 758 CB PRO A 906 54.958 44.937 13.468 1.00 20.00 ATOM 759 CG PRO A 906 54.958 44.937 13.468 1.00 20.00 ATOM 759 CG PRO A 906 55.981 44.280 14.584 1.00 20.00 ATOM 759 CG PRO A 906 56.719 45.482 15.227 1.00 20.00 ATOM 760 CD PRO A 906 56.719 45.482 15.227 1.00 20.00 ATOM 761 N HIS A 907 53.729 47.841 15.450 1.00 20.00 ATOM 762 CA HIS A 907 52.655 48.251 16.349 1.00 20.00 ATOM 762 CA HIS A 907 52.655 48.251 16.349 1.00 20.00 ATOM 763 C HIS A 907 52.655 48.251 16.468 1.00 20.00											
ATOM 742 CE1 TYR A 904 56.420 48.136 8.955 1.00 20.00 ATOM 743 CE2 TYR A 904 56.498 46.115 10.223 1.00 20.00 ATOM 744 CZ TYR A 904 55.779 47.128 9.602 1.00 20.00 ATOM 745 OH TYR A 904 54.405 47.149 9.622 1.00 20.00 ATOM 748 N. ALA A 905 59.270 48.183 12.727 1.00 20.00 ATOM 749 CA ALA A 905 58.503 47.772 13.931 1.00 20.00 ATOM 750 C ALA A 905 56.987 47.506 13.620 1.00 20.00 ATOM 751 O ALA A 905 56.395 48.128 12.744 1.00 20.00 ATOM 752 CB ALA A 905 58.649 48.816 14.976 1.00 20.00 ATOM 754 N PRO A 906 56.341 46.572 14.317 1.00 20.00 ATOM 755 CA PRO A 906 56.341 46.572 14.317 1.00 20.00 ATOM 756 C PRO A 906 54.949 46.394 13.918 1.00 20.00 ATOM 757 O PRO A 906 52.992 45.748 15.150 1.00 20.00 ATOM 758 CB PRO A 906 52.992 45.748 15.150 1.00 20.00 ATOM 759 CG PRO A 906 54.958 44.937 13.468 1.00 20.00 ATOM 759 CG PRO A 906 55.981 44.280 14.584 1.00 20.00 ATOM 760 CD PRO A 906 56.719 45.482 15.227 1.00 20.00 ATOM 761 N HIS A 907 53.729 47.841 15.450 1.00 20.00 ATOM 762 CA HIS A 907 52.655 48.251 16.349 1.00 20.00 ATOM 762 CA HIS A 907 52.966 49.700 16.468 1.00 20.00 ATOM 763 C HIS A 907 52.966 49.700 16.468 1.00 20.00 ATOM 763 C HIS A 907 52.966 49.700 16.468 1.00 20.00											
ATOM 743 CE2 TYR A 904 56.498 46.115 10.223 1.00 20.00 ATOM 744 CZ TYR A 904 55.779 47.128 9.602 1.00 20.00 ATOM 745 OH TYR A 904 54.405 47.149 9.622 1.00 20.00 ATOM 748 N. ALA A 905 59.270 48.183 12.727 1.00 20.00 ATOM 749 CA ALA A 905 58.503 47.772 13.931 1.00 20.00 ATOM 750 C ALA A 905 56.987 47.506 13.620 1.00 20.00 ATOM 751 O ALA A 905 56.395 48.128 12.744 1.00 20.00 ATOM 752 CB ALA A 905 58.649 48.816 14.976 1.00 20.00 ATOM 754 N PRO A 906 56.341 46.572 14.317 1.00 20.00 ATOM 755 CA PRO A 906 54.949 46.394 13.918 1.00 20.00 ATOM 756 C PRO A 906 53.803 46.643 14.902 1.00 20.00 ATOM 757 O PRO A 906 52.992 45.748 15.150 1.00 20.00 ATOM 758 CB PRO A 906 54.958 44.937 13.468 1.00 20.00 ATOM 759 CG PRO A 906 55.981 44.280 14.584 1.00 20.00 ATOM 760 CD PRO A 906 56.719 45.482 15.227 1.00 20.00 ATOM 761 N HIS A 907 53.729 47.841 15.450 1.00 20.00 ATOM 762 CA HIS A 907 52.655 48.251 16.349 1.00 20.00 ATOM 762 CA HIS A 907 52.665 48.251 16.349 1.00 20.00 ATOM 763 C HIS A 907 52.966 49.700 16.468 1.00 20.00											
ATOM 744 CZ TYR A 904 55.779 47.128 9.602 1.00 20.00 ATOM 745 OH TYR A 904 54.405 47.149 9.622 1.00 20.00 ATOM 748 N. ALA A 905 59.270 48.183 12.727 1.00 20.00 ATOM 749 CA ALA A 905 58.503 47.772 13.931 1.00 20.00 ATOM 750 C ALA A 905 56.987 47.506 13.620 1.00 20.00 ATOM 751 O ALA A 905 56.395 48.128 12.744 1.00 20.00 ATOM 752 CB ALA A 905 58.649 48.816 14.976 1.00 20.00 ATOM 754 N PRO A 906 56.341 46.572 14.317 1.00 20.00 ATOM 755 CA PRO A 906 54.949 46.394 13.918 1.00 20.00 ATOM 756 C PRO A 906 53.803 46.643 14.902 1.00 20.00 ATOM 757 O PRO A 906 52.992 45.748 15.150 1.00 20.00 ATOM 758 CB PRO A 906 54.958 44.937 13.468 1.00 20.00 ATOM 759 CG PRO A 906 55.981 44.280 14.584 1.00 20.00 ATOM 760 CD PRO A 906 56.719 45.482 15.227 1.00 20.00 ATOM 761 N HIS A 907 53.729 47.841 15.450 1.00 20.00 ATOM 762 CA HIS A 907 52.655 48.251 16.349 1.00 20.00 ATOM 763 C HIS A 907 52.966 49.700 16.468 1.00 20.00											
ATOM 745 OH TYR A 904 54.405 47.149 9.622 1.00 20.00 ATOM 748 N· ALA A 905 59.270 48.183 12.727 1.00 20.00 ATOM 749 CA ALA A 905 58.503 47.772 13.931 1.00 20.00 ATOM 750 C ALA A 905 56.987 47.506 13.620 1.00 20.00 ATOM 751 O ALA A 905 56.395 48.128 12.744 1.00 20.00 ATOM 752 CB ALA A 905 56.395 48.816 14.976 1.00 20.00 ATOM 754 N PRO A 906 56.341 46.572 14.317 1.00 20.00 ATOM 755 CA PRO A 906 54.949 46.394 13.918 1.00 20.00 ATOM 756 C PRO A 906 53.803 46.643 14.902 1.00 20.00 ATOM 757 O PRO A 906 52.992 45.748 15.150 1.00 20.00 ATOM 758 CB PRO A 906 54.958 44.937 13.468 1.00 20.00 ATOM 759 CG PRO A 906 55.981 44.280 14.584 1.00 20.00 ATOM 760 CD PRO A 906 56.719 45.482 15.227 1.00 20.00 ATOM 761 N HIS A 907 53.729 47.841 15.450 1.00 20.00 ATOM 762 CA HIS A 907 52.655 48.251 16.349 1.00 20.00 ATOM 763 C HIS A 907 52.665 49.700 16.468 1.00 20.00											
ATOM 748 N. ALA A 905 59.270 48.183 12.727 1.00 20.00 ATOM 749 CA ALA A 905 58.503 47.772 13.931 1.00 20.00 ATOM 750 C ALA A 905 56.987 47.506 13.620 1.00 20.00 ATOM 751 O ALA A 905 56.395 48.128 12.744 1.00 20.00 ATOM 752 CB ALA A 905 58.649 48.816 14.976 1.00 20.00 ATOM 754 N PRO A 906 56.341 46.572 14.317 1.00 20.00 ATOM 755 CA PRO A 906 54.949 46.394 13.918 1.00 20.00 ATOM 756 C PRO A 906 53.803 46.643 14.902 1.00 20.00 ATOM 757 O PRO A 906 52.992 45.748 15.150 1.00 20.00 ATOM 758 CB PRO A 906 54.958 44.937 13.468 1.00 20.00 ATOM 759 CG PRO A 906 55.981 44.280 14.584 1.00 20.00 ATOM 760 CD PRO A 906 55.981 44.280 14.584 1.00 20.00 ATOM 761 N HIS A 907 53.729 47.841 15.450 1.00 20.00 ATOM 762 CA HIS A 907 52.655 48.251 16.349 1.00 20.00 ATOM 763 C HIS A 907 52.966 49.700 16.468 1.00 20.00											
ATOM 749 CA ALA A 905 58.503 47.772 13.931 1.00 20.00 ATOM 750 C ALA A 905 56.987 47.506 13.620 1.00 20.00 ATOM 751 O ALA A 905 56.395 48.128 12.744 1.00 20.00 ATOM 752 CB ALA A 905 58.649 48.816 14.976 1.00 20.00 ATOM 754 N PRO A 906 56.341 46.572 14.317 1.00 20.00 ATOM 755 CA PRO A 906 54.949 46.394 13.918 1.00 20.00 ATOM 756 C PRO A 906 53.803 46.643 14.902 1.00 20.00 ATOM 757 O PRO A 906 52.992 45.748 15.150 1.00 20.00 ATOM 758 CB PRO A 906 54.958 44.937 13.468 1.00 20.00 ATOM 759 CG PRO A 906 55.981 44.280 14.584 1.00 20.00 ATOM 760 CD PRO A 906 56.719 45.482 15.227 1.00 20.00 ATOM 761 N HIS A 907 53.729 47.841 15.450 1.00 20.00 ATOM 762 CA HIS A 907 52.655 48.251 16.349 1.00 20.00 ATOM 763 C HIS A 907 52.966 49.700 16.468 1.00 20.00											
ATOM 750 C ALA A 905 56.987 47.506 13.620 1.00 20.00 ATOM 751 O ALA A 905 56.395 48.128 12.744 1.00 20.00 ATOM 752 CB ALA A 905 58.649 48.816 14.976 1.00 20.00 ATOM 754 N PRO A 906 56.341 46.572 14.317 1.00 20.00 ATOM 755 CA PRO A 906 54.949 46.394 13.918 1.00 20.00 ATOM 756 C PRO A 906 53.803 46.643 14.902 1.00 20.00 ATOM 757 O PRO A 906 52.992 45.748 15.150 1.00 20.00 ATOM 758 CB PRO A 906 54.958 44.937 13.468 1.00 20.00 ATOM 759 CG PRO A 906 55.981 44.280 14.584 1.00 20.00 ATOM 760 CD PRO A 906 56.719 45.482 15.227 1.00 20.00 ATOM 761 N HIS A 907 53.729 47.841 15.450 1.00 20.00 ATOM 762 CA HIS A 907 52.655 48.251 16.349 1.00 20.00 ATOM 763 C HIS A 907 52.966 49.700 16.468 1.00 20.00			•								
ATOM 751 O ALA A 905 56.395 48.128 12.744 1.00 20.00 ATOM 752 CB ALA A 905 58.649 48.816 14.976 1.00 20.00 ATOM 754 N PRO A 906 56.341 46.572 14.317 1.00 20.00 ATOM 755 CA PRO A 906 54.949 46.394 13.918 1.00 20.00 ATOM 756 C PRO A 906 53.803 46.643 14.902 1.00 20.00 ATOM 757 O PRO A 906 52.992 45.748 15.150 1.00 20.00 ATOM 758 CB PRO A 906 54.958 44.937 13.468 1.00 20.00 ATOM 759 CG PRO A 906 55.981 44.280 14.584 1.00 20.00 ATOM 760 CD PRO A 906 56.719 45.482 15.227 1.00 20.00 ATOM 761 N HIS A 907 53.729 47.841 15.450 1.00 20.00 ATOM 762 CA HIS A 907 52.655 48.251 16.349 1.00 20.00 ATOM 763 C HIS A 907 52.966 49.700 16.468 1.00 20.00											
ATOM 752 CB ALA A 905 58.649 48.816 14.976 1.00 20.00 ATOM 754 N PRO A 906 56.341 46.572 14.317 1.00 20.00 ATOM 755 CA PRO A 906 54.949 46.394 13.918 1.00 20.00 ATOM 757 O PRO A 906 53.803 46.643 14.902 1.00 20.00 ATOM 758 CB PRO A 906 52.992 45.748 15.150 1.00 20.00 ATOM 759 CG PRO A 906 54.958 44.937 13.468 1.00 20.00 ATOM 759 CG PRO A 906 55.981 44.280 14.584 1.00 20.00 ATOM 760 CD PRO A 906 56.719 45.482 15.227 1.00 20.00 ATOM 761 N HIS A 907 53.729 47.841 15.450 1.00 20.00 ATOM 762 CA HIS A 907 52.655 48.251 16.349 1.00 20.00 ATOM 763 C HIS A 907 52.966 49.700 16.468 1.00 20.00											
ATOM 754 N PRO A 906 56.341 46.572 14.317 1.00 20.00 ATOM 755 CA PRO A 906 54.949 46.394 13.918 1.00 20.00 ATOM 756 C PRO A 906 53.803 46.643 14.902 1.00 20.00 ATOM 757 O PRO A 906 52.992 45.748 15.150 1.00 20.00 ATOM 758 CB PRO A 906 54.958 44.937 13.468 1.00 20.00 ATOM 759 CG PRO A 906 55.981 44.280 14.584 1.00 20.00 ATOM 760 CD PRO A 906 56.719 45.482 15.227 1.00 20.00 ATOM 761 N HIS A 907 53.729 47.841 15.450 1.00 20.00 ATOM 762 CA HIS A 907 52.655 48.251 16.349 1.00 20.00 ATOM 763 C HIS A 907 52.966 49.700 16.468 1.00 20.00											
ATOM 755 CA PRO A 906 54.949 46.394 13.918 1.00 20.00 ATOM 756 C PRO A 906 53.803 46.643 14.902 1.00 20.00 ATOM 757 O PRO A 906 52.992 45.748 15.150 1.00 20.00 ATOM 758 CB PRO A 906 54.958 44.937 13.468 1.00 20.00 ATOM 759 CG PRO A 906 55.981 44.280 14.584 1.00 20.00 ATOM 760 CD PRO A 906 56.719 45.482 15.227 1.00 20.00 ATOM 761 N HIS A 907 53.729 47.841 15.450 1.00 20.00 ATOM 762 CA HIS A 907 52.655 48.251 16.349 1.00 20.00 ATOM 763 C HIS A 907 52.966 49.700 16.468 1.00 20.00			CB								
ATOM 756 C PRO A 906 53.803 46.643 14.902 1.00 20.00 ATOM 757 O PRO A 906 52.992 45.748 15.150 1.00 20.00 ATOM 758 CB PRO A 906 54.958 44.937 13.468 1.00 20.00 ATOM 759 CG PRO A 906 55.981 44.280 14.584 1.00 20.00 ATOM 760 CD PRO A 906 56.719 45.482 15.227 1.00 20.00 ATOM 761 N HIS A 907 53.729 47.841 15.450 1.00 20.00 ATOM 762 CA HIS A 907 52.655 48.251 16.349 1.00 20.00 ATOM 763 C HIS A 907 52.966 49.700 16.468 1.00 20.00	ATOM	754	N								
ATOM 757 O PRO A 906 52.992 45.748 15.150 1.00 20.00 ATOM 758 CB PRO A 906 54.958 44.937 13.468 1.00 20.00 ATOM 759 CG PRO A 906 55.981 44.280 14.584 1.00 20.00 ATOM 760 CD PRO A 906 56.719 45.482 15.227 1.00 20.00 ATOM 761 N HIS A 907 53.729 47.841 15.450 1.00 20.00 ATOM 762 CA HIS A 907 52.655 48.251 16.349 1.00 20.00 ATOM 763 C HIS A 907 52.966 49.700 16.468 1.00 20.00	ATOM	755	CA								
ATOM 758 CB PRO A 906 54.958 44.937 13.468 1.00 20.00 ATOM 759 CG PRO A 906 55.981 44.280 14.584 1.00 20.00 ATOM 760 CD PRO A 906 56.719 45.482 15.227 1.00 20.00 ATOM 761 N HIS A 907 53.729 47.841 15.450 1.00 20.00 ATOM 762 CA HIS A 907 52.655 48.251 16.349 1.00 20.00 ATOM 763 C HIS A 907 52.966 49.700 16.468 1.00 20.00	ATOM	756	С	PRO	A						
ATOM 759 CG PRO A 906 55.981 44.280 14.584 1.00 20.00 ATOM 760 CD PRO A 906 56.719 45.482 15.227 1.00 20.00 ATOM 761 N HIS A 907 53.729 47.841 15.450 1.00 20.00 ATOM 762 CA HIS A 907 52.655 48.251 16.349 1.00 20.00 ATOM 763 C HIS A 907 52.966 49.700 16.468 1.00 20.00		757	0								
ATOM 760 CD PRO A 906 56.719 45.482 15.227 1.00 20.00 ATOM 761 N HIS A 907 53.729 47.841 15.450 1.00 20.00 ATOM 762 CA HIS A 907 52.655 48.251 16.349 1.00 20.00 ATOM 763 C HIS A 907 52.966 49.700 16.468 1.00 20.00	MOTA	758	CB	PRO	Α	906					
ATOM 761 N HIS A 907 53.729 47.841 15.450 1.00 20.00 ATOM 762 CA HIS A 907 52.655 48.251 16.349 1.00 20.00 ATOM 763 C HIS A 907 52.966 49.700 16.468 1.00 20.00	MOTA	759	CG	PRO	A	906		44.280			
ATOM 762 CA HIS A 907 52.655 48.251 16.349 1.00 20.00 ATOM 763 C HIS A 907 52.966 49.700 16.468 1.00 20.00	ATOM	760	CD	PRO	A	906	56.719	45.482			
ATOM 762 CA HIS A 907 52.655 48.251 16.349 1.00 20.00 ATOM 763 C HIS A 907 52.966 49.700 16.468 1.00 20.00	ATOM	761	N	HIS	A	907	53.729		15.450		
ATOM 763 C HIS A 907 52.966 49.700 16.468 1.00 20.00		762	CA	HIS	Α	907	52.655	48.251	16.349		
	ATOM		С	HIS	A	907	52.966	49.700	16.468		
		764	0	HIS	A	907	52.865	50.262	17.534	1.00	20.00

ATOM	765	CB	HIS	Α	907	52.745	47.577	17.714	1.00	20.00
ATOM	766	CG	HIS	A	907	52.656	46.090	17.650	1.00	20.00
MOTA	767	ND1	HIS	A	907	53.753	45.272	17.799	1.00	20.00
MOTA	768	CD2	HIS	Ą	907	51.622	45.274	17.350	1.00	2000
ATOM	769	CE1	HIS	A	907	53.404	44.018	17.593	1.00	20.00
ATOM	770	NE2	HIS	A	907	52.116	43.993	17.318	1.00	20.00
ATOM	774	N	GLY			53.411	50.280	15.365	1.00	
ATOM	775	CA			908	53.733	51.676	15.348	1.00	
ATOM	776	C	GLY			54.622	52.111	16.486	1.00	
ATOM	777	0			908	55.525	51.381	16.887	1.00	
ATOM	779	N	ASN			54.338	53.284	17.054	1.00	20.00
			ASN							
ATOM	780	CA	ASN			55.183	53.854	18.094	1.00	20.00
ATOM	781	C				54.590	53.912	19.463	1.00	
ATOM	782	0	ASN			53.409	54.064	19.616	1.00	
MOTA	783	CB	ASN			55.545	55.270	17.672		20.00
ATOM	784	CG	ASN			54.346	56.201	17.669	1.00	20.00
MOTA	785	OD1				54.409	57.315	17.192	1.00	20.00
ATOM	786	ND2	ASN	Α	909	53.260	55.738	18.210	1.00	20.00
MOTA	790	N	LEU	Α	910	55.414	53.878	20.482	1.00	20.00
ATOM	791	CA	LEU	A	910	54.872	53.913	21.808	1.00	20.00
ATOM	792	C	LEU	A	910	53.703	54.890	21.927	1.00	20.00
ATOM	793	0	LEU	A	910	52.760	54.647	22.669	1.00	20.00
ATOM	794	CB	LEU	A	910	55.949	54.257	22.797	1.00	20.00
ATOM	795	CG	LEU			55.456	54.079	24.220	1.00	20.00
ATOM	796	CD1				54.921	52.676	24.488		20.00
ATOM	797	CD2	LEU			56.617	54.427	25.133		20.00
ATOM	799	N	LEU			53.725	56.005	21.219	1.00	20.00
ATOM	800	CA	LEU			52.578	56.862	21.381		20.00
ATOM	801	C	LEU			51.408	56.200	20.656		20.00
ATOM	802	0	LEU			50.700	55.442	21.275		20.00
ATOM	803		LEU			52.820	58.302	20.863		20.00
		CB								
ATOM	804	CG	LEU			51:958	59.498	21.354		20.00
ATOM	805		LEU			51.738	59.517	22.855		20.00
MOTA	806	CD2	LEU			52.645	60.737	20.917		20.00
ATOM	808	N	ASP			51.219	56.459	19.371		20.00
ATOM	809	CA	ASP			50.117	55.895	18.642		20.00
ATOM	810	C	ASP			49.646	54.540	19.121		20.00
MOTA	811	0	ASP	A	912	48.468	54.225	19.083		20.00
MOTA	812	CB	ASP	A	912	50.461	55.849	17.181	1.00	20.00
ATOM	813	CG	ASP	Α	912	50.214	57.151	16.498	1.00	20.00
MOTA	814	OD1	ASP	Α	912	50.507	57.259	15.304	1.00	20.00
MOTA	815	OD2	ASP	A	912	49.725	58.089	17.141	1.00	20.00
ATOM	817	N,	PHE	Α	913	50.572	53.703	19.562	1.00	20.00
MOTA	818	CA	PHE	A	913	50.168	52.405	20.098	1.00	20.00
ATOM	819	C	PHE			49.397	52.903	21.287	1.00	20.00
ATOM	820	0	PHE			48.236	53.231	21.164	1.00	20.00
ATOM	821	СВ	PHE			51.355	51.585	20.547		20.00
ATOM	822	CG	PHE			51.010	50.182	20.847		20.00
ATOM	823	CD1				50.511	49.365	19.866		20.00
ATOM	824		PHE			51.133	49.688	22.122		20.00
										20.00
ATOM	825	CEL	PHE			50.141	48.088	20.152		
ATOM	826	CE2				50.760	48.418	22.407		20.00
ATOM	827	CZ	PHE			50.263	47.619	21.418		20.00
ATOM	829	N	LEU			50.059	53.031	22.416		20.00
ATOM	830	CA	LEU			49.400	53.584	23.572		20.00
ATOM	831	C	LEU			48.080	54.304	23.288		20.00
ATOM	832	0	LEU	A	914	47.102	54.093	23.985	1.00	20.00

				_				_			00 00
ATOM	833	CB			914		50.342	54.549	24.244	1.00	20.00
ATOM	834	CG			914		51.146	53.995	25.410	1.00	
ATOM	835	CD1	LEU	A	914		52.130	55.080	25.953	1.00	20.00
ATOM	836	CD2	LEU	Α	914		50.142	53.501	26.466	1.00	20.00
ATOM	838	N	ARG	Α	915		48.006	55.139	22.265	1.00	20.00
ATOM	839	CA	ARG				46.736	55.841	22.041	1.00	20.00
ATOM		C	ARG			•	45.650	54.970	21.526	1.00	20.00
	840									1.00	20.00
ATOM	841	0	ARG				44.569	54.984	22.054		
ATOM	842	CB	ARG				46.896	57.078	21.141	1.00	20.00
ATOM	843	CG	ARG	A	915		46.687	58.379	21.885	1:00	20.00
ATOM	844	CD	ARG	Α	915		47.528	59.415	21.256	1.00	20.00
ATOM	845	NE	ARG	Α	915		48.215	60.347	22.169	1.00	20.00
ATOM	846	CZ	ARG	Α	915		48.763	61.482	21.760	1.00	20.00
ATOM	847	NHl	ARG	Α	915		48.709	61.835	20.494	1.00	20.00
ATOM	848	NH2	ARG				49.383	62.240	22.602	1.00	20.00
ATOM	855	N	LYS				45.943	54.219	20.485	1.00	20.00
										1.00	20.00
MOTA	856	CA	LYS				45.019	53.242	19.890		
ATOM	857	C			916		44.681	52.169	20.920	1.00	20.00
ATOM	858	0			916		44.275	51.109	20.561	1.00	20.00
MOTA	859	CB	LYS	A	916		45.714	52.563	18.676	1.00	20.00
ATOM	860	CG	LYS	Α	916		45.988	51.000	18.704	1.00	20.00
ATOM	861	CD	LYS	Α	916		46.802	50.408	19.888	1.00	20.00
ATOM	862	CE	LYS	Α	916		46.861	48.841	19.822	1.00	20.00
ATOM	863	NZ			916		46.225	47.974	20.937	1.00	20.00
ATOM	868	N	SER				44.851	52.438	22.196	1.00	20.00
			SER					51.466	23.204	1.00	20.00
ATOM	869	CA					44.597				
ATOM	870	С	SER				43.641	52.011	24.233	1.00	20.00
ATOM	871	0	SER				43.501	51.444	25.330	1.00	20.00
MOTA	872	CB	SER	Α	917		45.891	51.147	23.883		20.00
ATOM	873	OG	SER	Α	917		45.843	51.568	25.227	1.00	20.00
ATOM	876	N	ARG	A	918		43.014	53.138	23.902	1.00	20.00
ATOM	877	CA	ARG	A	918		42.041	53.822	24.775	1.00	20.00
ATOM	878	С	ARG				40.816	53.359	24.014	1.00	20.00
ATOM	879	0	ARG				40.523	53.883	22.951		20.00
ATOM	880	CB	ARG				42.260	55.365	24.669	1.00	20.00
									25.794	1.00	20.00
ATOM	881	CG	ARG				43.138	56.036			
ATOM	882	CD	ARG				43.547	57.502	25.488	1.00	20.00
MOTA	883	NE	ARG	A	918		44.494	57.982	26.502	1.00	
ATOM	884	CZ	ARG	Α	918		44.777	59.260	26.795	1.00	20.00
ATOM	885	NH1	ARG	A	918		44.211	60.289	26.165	1,.00	20.00
ATOM	886	NH2	ARG	Α	918		45.625	59.523	27.777	1.00	20.00
ATOM	893	N	VAL	Α	919		40.135	52.333	24.507	1.00	20.00
ATOM	894	CA	VAL				39.009	51.770	23.757	1.00	20.00
		C,	VAL				37.733	52.382	24.202		20.00
ATOM	895								23.450		20.00
MOTA	896	0	VAL				36.750	52.427			
MOTA	897	CB	VAL				38.925	50.198	23.861		20.00
MOTA	898		VAL				40.218	49.603	23.459		20.00
ATOM	899	CG2	VAL	Α	919		38.550	49.746	25.275		20.00
MOTA	901	N	LEU	Α	920		37.736	52.861	25.432	1.00	20.00
ATOM	902	CA	LEU	A	920		36.569	53.542	25.895	1.00	20.00
ATOM	903	C	LEU				36.303	54.630	24.864	1.00	20.00
ATOM	904	0	LEU				35.276	55.259	24.906		20.00
ATOM	905	CB	LEU				36.815	54.146	27.236	1.00	
									28.011		20.00
ATOM	906	CG	LEU				35.641	54.652			
ATOM	907		LEU				35.060	53.567	28.831	1.00	
ATOM	908	CD2	LEU				36.155	55.768	28.901		20.00
MOTA	910	N	GLU	A	921		37.224	54.824	23.926	1.00	20.00
											•

AIUM	フエエ	CA -			74 L	3/.081	55./83	22.850		20.00
ATOM	912	C			921	37.413	55.109	21.541	1.00	
ATOM	913	0			921	37.205	55.677	20.469	1.00	
ATOM	914	CB			921	38.047	56.940	23.011	1.00	20.00
ATOM	915	CG			921	38.258	57.743	21.736	1.00	20.00
ATOM	916	CD			921	39.404	58.696	21.848	1.00	
ATOM	917	OE1			921	39.875	58.879	22.982	1.00	20.00
ATOM	918	OE2			921	39.836	59.261	20.825	1.00	20.00
ATOM	920	N			922	37.936	53.893	21.615	1.00	20.00
ATOM	921	CA			922	38.309	53.178	20.413	1.00	20.00
ATOM	922	C	THR			37.429	51.960	20.078	1.00	
ATOM	923	0	THR			37.502	51.387	18.963	1.00	
ATOM	924	CB	THR			39.742	52.728	20.559		20.00
MOTA	925	OG1	THR			40.441	53.058	19.366	1.00	20.00
MOTA	926	CG2	THR			39.824	51.214	20.816	1.00	20.00
ATOM	929	N	ASP		923	36.617	51.575	21.074	1.00	
MOTA	930	CA	ASP		923	35.712	50.423	21.026	1.00	20.00
MOTA	931	C	ASP		923	34.972	50.387	22.350	1.00	20.00
ATOM	932	0			923	35.259	49.550	23.203	1.00	20.00
ATOM	933	CB	ASP	A	923	36.494	49.119	20.905	1.00	20.00
ATOM	934	CG	ASP	A	923	35.87 <i>9</i>	48.142	19.909	1.00	20.00
ATOM	935	OD1	ASP	Α	923	35.624	48.553	18.745	1.00	20.00
ATOM	936	OD2	ASP	A	923	35.669	46.956	20.271	1.00	20.00
MOTA	938	N	PRO	A	924	34.042	51.323	22.577	1.00	20.00
MOTA	939	CA	PRO	А	924	33.362	51.211	23.874	1.00	20.00
MOTA	940	C	PRO	A	924	32.544	49.923	24.176	1.00	20.00
ATOM	941	0	PRO	А	924	32.172	49.720	25.342	1.00	20.00
ATOM	942	CB	PRO	A	924	32.540	52.506	23.953	1.00	20.00
ATOM	943	CG	PRO	Α	924 .	33.214	53.417	22.960	1.00	20.00
ATOM	944	CD	PRO	Α	924	33.600	52.512	21.841	1.00	20.00
ATOM	945	N	ALA	A	925	32.276	49.078	23.156	1.00	20.00
ATOM	946	CA	ALA	A	925	31.551	47.770	23.326	1.00	20.00
ATOM	947	C	ALA	A	925	32.438	46.878	24.193	1.00	20.00
ATOM	948	0	ALA	A	925	32.016	46.274	25.190	1.00	20.00
ATOM	949	CB	ALA	A	925	31.328	47.103	21.992	1.00	20.00
MOTA	951	N	PHE	Α	926	33.695	46.843	23.771	1.00	20.00
ATOM	952	CA	PHE	Α	926	34.782	46.173	24.431	1.00	20.00
ATOM	953	C	PHE	A	926	34.885	46.856	25.745	1.00	20.00
MOTA	954	0	PHE	Α	926	34.896	46.269	26.772	1.00	20.00
ATOM	955	CB	PHE	A	926	36.058	46.460	23.667	1.00	20.00
ATOM	956	CG	PHE	A	926	37.046	45.347	23.693	1.00	20.00
ATOM	957	CD1	PHE	A	926	37.164	44.511	22.599	1.00	20.00
ATOM	958	,CD2				37.810	45.127	24.825	1.00	20.00
ATOM	959		PHE			38.003	43.493	22.630	1.00	20.00
ATOM	960	,	PHE			38.661	44.107	24.881	1.00	20.00
ATOM	961	CZ	PHE			38.773	43.272	23.786		20.00
ATOM	963	N	ALA			35.024	48.154	25.681		20.00
ATOM	964	CA	ALA			35.084	48.926	26.885		20.00
ATOM	965	C	ALA			34.165	48.337	27.956		20.00
ATOM	966	0	ALA			34.695	47.721	28.843		20.00
ATOM	967	CB	ALA			34.717	50.348	26.587		20.00
ATOM	969	N	ILE			32.825	48.502	27.887		20.00
ATOM	970	CA	ILE			31.935	47.945	28.958		20.00
ATOM	971	CA	ILE			31.760	46.437	29.001		20.00
ATOM	972	0	ILE			31.464	45.883	30.050		20.00
ATOM	973	CB	ILE			30.395	48.487	29.019		20.00
MOTA	974	CG1	ILE			30.081	49.486	27.941		20.00
	J / 4	CGT	-1111	~~	220	20.001	#9.#OU	21.234	1.00	_0.00

ATOM	975	CG2	ILE	A	928	30.098	49.114	30.414		20.00
ATOM	976	CD1	ILE	A	928	29.952	50.862	28.545	1.00	20.00
ATOM	978	N	ALA	Ą	929	31.895	45.782	27.860	1.00	20.00
ATOM	979	CA	ALA	Ą	929	31.747	44.356	27.867	1.00	20.00
ATOM	980	С	ALA	А	929	32.803	43.844	28.804	1.00	20.00
ATOM	981	0	ALA	A	929	32.525	43.055	29.667	1.00	20.00
ATOM	982	CB	ALA			31.946	43.823	26.510	1.00	20.00
ATOM	984	N	ASN			34.010	44.358	28.642		20.00
ATOM	985	CA	ASN			35.181	44.009	29.429		20.00
ATOM	986	C	ASN			35.448	44.882	30.665		20.00
ATOM	987	0	ASN			36.191	44.496	31.566	1.00	20.00
ATOM	988	CB	ASN			36.397	44.067	28.511		20.00
ATOM	989	CG	ASN			36.628	42.771	27.745		20.00
			ASN			37.333	41.876	28.220		20.00
ATOM	990					36.046		26.547		20.00
ATOM	991		ASN				42.671			
MOTA	995	N	SER			34.847	46.063	30.695	1.00	20.00
ATOM	996	CA	SER			35.050	47.041	31.768		20.00
ATOM	997	С	SER			36.531	47.527	31.922	1.00	
ATOM	998	0	SER			37.074	47.556	33.020		20.00
ATOM	999	CB	SER			34.541	46.453	33.084		20.00
MOTA	1000	OG	SER	Α	931	34.196	45.103	32.879		20.00
ATOM	1003	N	THR	A	932	37.155	47.931	30.815	1.00	20.00
MOTA	1004	CA	THR	A	932	38.545	48.392	30.821	1.00	20.00
MOTA	1005	C	THR	Α	932	38.800	49.536	29.872		20.00
MOTA	1006	0	THR	A	932	38.184	49.614	28.803	1.00	20.00
MOTA	1007	CB	THR	A	932	39.525	47.299	30.451	1.00	20.00
ATOM	1008	OG1	THR			38.971	46.481	29.417	1.00	20.00
ATOM	1009	CG2	THR			39.832	46.479	31.663	1.00	20.00
ATOM	1012	N	ALA			39.747	50.384	30.287	1.00	20.00
ATOM	1013	CA	ALA			40.179	51.608	29.597	1.00	20.00
ATOM	1014	C	ALA			41.172	51.417	28.495	1.00	
ATOM	1015	0	ALA			41.155	52.134	27.513		20.00
	1015	CB	ALA			40.778	52.547	30.597		20.00
ATOM			SER			42.086	50.480	28.709		20.00
ATOM	1018	N					50.430	27.749		20.00
MOTA	1019	CA	SER			43.134		27.749		20.00
ATOM	1020	C	SER			43.001	48.645		1.00	20.00
MOTA	1021	0	SER			42.431	47.966	28.337		
MOTA	1022	CB	SER			44.511	50.396	28.374	1.00	
ATOM	1023	OG	SER			45.494	50.638	27.386	1.00	
MOTA	1026	N	THR			43.497	48.150	26.380	1.00	20.00
MOTA	1027	CA	THR			43.529	46.701	26.144	1.00	20.00
ATOM	1028	C	THR			44.801	46.297	26.814		20.00
ATOM	1029	Ο,	THR	A	935	45.015	45.118	27.082		20.00
ATOM	1030	CB'	THR	A	935	43.768	46.312	24.783		20.00
MOTA	1031	OG1	THR	A	935	44.892	47.021	24.325	1.00	20.00
MOTA	1032	CG2	THR	A	935	42.571	46.583	23.961		20.00
ATOM	1035	N	LEU	A	936	45.640	47.301	27.070	1.00	20.00
ATOM	1036	CA	LEU	A	936	46.897	47.138	27.735	1.00	20.00
MOTA	1037	С	LEU			46.640	46.822	29.174	1.00	20.00
MOTA	1038	0	LEU			45.579	47.010	29.666	1.00	20.00
ATOM	1039	CB	LEU			47.699	48.413	27.635		20.00
ATOM	1040	CG	LEU			47.921	49.086	26.273		20.00
	1041	CD1				49.058	50.134	26.370		20.00
ATOM		CD2	LEU			48.250	48.029	25.238		20.00
ATOM	1042					47.652	46.322	29.841		20.00
ATOM	1044	N	SER			47.632	45.961	31.232		20.00
ATOM	1045	CA	SER					32.054		20.00
ATOM	1046	С	SER	A	73 /	48.521	46.834	J4.UJ4	1.00	20.00

ATOM 1048 CB SER A 937										
ATOM 1049 OG SER A 937										
ATOM 1051 CA SER A 938										
ATOM 1054 C SER A 938										
ATOM 1055 C SER A 938 50.724 46.904 33.957 1.00 20.00 ATOM 1055 C SER A 938 50.012 47.071 35.683 1.00 20.00 ATOM 1057 OG SER A 938 50.012 47.071 35.683 1.00 20.00 ATOM 1057 OG SER A 938 50.012 47.071 35.683 1.00 20.00 ATOM 1060 N GLN A 939 50.849 45.587 33.812 1.00 20.00 ATOM 1061 CA GLN A 939 50.849 45.587 33.812 1.00 20.00 ATOM 1061 CA GLN A 939 52.165 45.002 33.522 1.00 20.00 ATOM 1062 C GLN A 939 52.165 45.002 33.522 1.00 20.00 ATOM 1063 O GLN A 939 52.709 45.435 32.165 1.00 20.00 ATOM 1063 O GLN A 939 52.709 45.435 32.165 1.00 20.00 ATOM 1063 C GLN A 939 52.138 43.465 33.608 1.00 20.00 ATOM 1065 C G GLN A 939 52.238 42.909 35.046 1.00 20.00 ATOM 1066 CD GLN A 939 52.238 42.909 35.046 1.00 20.00 ATOM 1066 CD GLN A 939 53.756 42.716 35.473 1.00 20.00 ATOM 1067 OEI GLN A 939 54.055 42.116 35.473 1.00 20.00 ATOM 1068 NE2 GLN A 940 51.922 45.294 31.111 1.00 20.00 ATOM 1070 C GLN A 940 51.922 45.294 31.111 1.00 20.00 ATOM 1071 C GLN A 940 51.304 47.092 9.913 1.00 20.00 ATOM 1073 C GLN A 940 51.304 47.092 9.913 1.00 20.00 ATOM 1074 C GLN A 940 51.304 47.092 9.913 1.00 20.00 ATOM 1076 C GLN A 940 51.304 47.097 29.913 1.00 20.00 ATOM 1076 C GLN A 940 51.330 45.696 28.788 1.00 20.00 ATOM 1076 C GLN A 940 51.330 45.696 28.788 1.00 20.00 ATOM 1076 C GLN A 940 51.330 45.696 28.788 1.00 20.00 ATOM 1078 C GLN A 940 51.330 45.696 28.788 1.00 20.00 ATOM 1078 C GLN A 940 51.595 42.181 31.00 20.00 ATOM 1078 C GLN A 940 51.595 42.181 31.00 20.00 ATOM 1078 C GLN A 940 51.595 42.181 31.00 20.00 ATOM 1078 C GLN A 940 51.595 44.181 1.00 20.00 ATOM 1070 C GLN A 940 51.595 42.181 31.00 20.00 ATOM 1078 C GLN A 940 51.595 44.181 1.00 20.00 ATOM 1070 C GLN A 940 51.595 44.181 1.00 20.00 ATOM 1070 C GLN A 940 51.595 44.181 1.00 20.00 ATOM 1070 C GLN A 940 51.595 44.181 1.00 20.00 ATOM 1070 C GLN A 941 52.504 50.181 11.211 1.00 20.00 ATOM 1080 C GLEU A 941 52.553 47.832 20.887 1.00 20.00 ATOM 1080 C GLEU A 941 52.553 47.832 20.887 1.00 20.00 ATOM 1080 C GLEU A 941 52.554 48.683 33.431 1.00 20.00 ATOM 1090 C GLEU A 942 55.555 49.941 31.7										
ATOM										
ATOM										
ATOM 1057 OG SER A 938 ATOM 1061 CA GLN A 939 ATOM 1061 CA GLN A 939 ATOM 1061 CA GLN A 939 ATOM 1062 C GLN A 939 ATOM 1063 C GLN A 939 ATOM 1063 C GLN A 939 ATOM 1064 CB GLN A 939 ATOM 1065 CD GLN A 939 ATOM 1065 CG GLN A 939 ATOM 1066 CB GLN A 939 ATOM 1067 CE1 GLN A 939 ATOM 1067 CE2 GLN A 939 ATOM 1067 CE2 GLN A 939 ATOM 1068 NE2 GLN A 939 ATOM 1073 CA GLN A 940 ATOM 1074 C GLN A 940 ATOM 1075 C GLN A 940 ATOM 1076 CB GLN A 940 ATOM 1076 CB GLN A 940 ATOM 1077 CG GLN A 940 ATOM 1076 CB GLN A 940 ATOM 1077 CG GLN A 940 ATOM 1077 CG GLN A 940 ATOM 1078 CD GLN A 940 ATOM 1079 CE1 GLN A 940 ATOM 1079 CE2 GLN A 940 ATOM 1079 CB2 GLN A 940 ATOM 1079 CB3 GLN A 940 ATOM 1079 CB4 GLN A 940 ATOM 1079 CB5 GLN A 940 ATOM 1079 CB6 GLN A 940 ATOM 1079 CB6 GLN A 940 ATOM 1079 CB6 GLN A 940 ATOM 1079 CB7 GLN A 940 ATOM 1070 CB7 GLN										
ATOM										
ATOM										
ATOM						•				
ATOM 1063 O GLN A 939 53.831 45.917 32.073 1.00 20.00 ATOM 1064 CB GLN A 939 52.138 43.465 33.608 1.00 20.00 ATOM 1065 CG GLN A 939 52.298 42.909 35.046 1.00 20.00 ATOM 1066 CD GLN A 939 53.756 42.716 35.473 1.00 20.00 ATOM 1067 OE1 GLN A 939 54.055 42.185 34.711 1.00 20.00 ATOM 1068 NEZ GLN A 939 54.055 42.185 34.711 1.00 20.00 ATOM 1070 C GLN A 940 51.932 45.294 31.111 1.00 20.00 ATOM 1073 CA GLN A 940 53.040 47.092 29.913 1.00 20.00 ATOM 1077 CG GLN A 940 53.040 47.092 29.913 1.00 20.00 ATOM 1076 CB GLN A 940 53.040 47.092 29.913 1.00 20.00 ATOM 1077 CG GLN A 940 53.040 47.092 29.913 1.00 20.00 ATOM 1077 CG GLN A 940 51.695 46.374 27.506 1.00 20.00 ATOM 1077 CG GLN A 940 51.695 46.374 27.506 1.00 20.00 ATOM 1077 CG GLN A 940 52.680 45.571 25.496 1.00 20.00 ATOM 1079 DEI GLN A 940 52.680 45.571 25.496 1.00 20.00 ATOM 1079 DEI GLN A 940 52.680 45.571 25.496 1.00 20.00 ATOM 1080 NEZ GLN A 940 52.680 45.571 25.496 1.00 20.00 ATOM 1080 NEZ GLN A 940 52.680 45.571 25.496 1.00 20.00 ATOM 1080 NEZ GLN A 940 52.580 45.571 25.496 1.00 20.00 ATOM 1080 NEZ GLN A 940 52.523 47.832 30.887 1.00 20.00 ATOM 1080 NEZ GLN A 941 52.523 47.832 30.887 1.00 20.00 ATOM 1086 N LEU A 941 52.523 47.832 30.887 1.00 20.00 ATOM 1086 C LEU A 941 52.523 47.832 30.887 1.00 20.00 ATOM 1086 C LEU A 941 52.523 47.832 30.887 1.00 20.00 ATOM 1086 C LEU A 941 52.523 47.832 30.887 1.00 20.00 ATOM 1080 CG LEU A 941 51.855 49.924 31.933 1.00 20.00 ATOM 1090 CD1 LEU A 941 51.855 49.924 31.933 1.00 20.00 ATOM 1090 CD1 LEU A 941 55.882 48.804 32.440 1.00 20.00 ATOM 1090 CD1 LEU A 941 55.882 48.804 33.431 1.00 20.00 ATOM 1090 CD1 LEU A 942 54.571 48.700 32.488 1.00 20.00 ATOM 1091 CD2 LEU A 942 54.571 48.700 32.488 1.00 20.00 ATOM 1090 CD1 LEU A 942 54.571 48.700 32.484 1.00 20.00 ATOM 1090 CD1 LEU A 942 54.571 48.399 35.609 1.00 20.00 ATOM 1090 CD2 LEU A 942 54.571 48.590 33.500 1.00 20.00 ATOM 1090 CD2 LEU A 942 54.571 48.590 33.500 1.00 20.00 ATOM 1000 CD2 LEU A 942 54.595 44.907 47.676 39.93 1.00 20.00 ATOM 1100 CD2 LEU A 942 54.595 44.907 47.676 39										
ATOM 1064 CB GLN A 939 52.138 43.465 33.608 1.00 20.00 ATOM 1065 CG GLN A 939 52.298 42.990 35.046 1.00 20.00 ATOM 1066 CD GLN A 939 53.756 42.716 35.473 1.00 20.00 ATOM 1067 OEI GLN A 939 53.756 42.716 35.473 1.00 20.00 ATOM 1068 NE2 GLN A 939 54.595 42.185 34.711 1.00 20.00 ATOM 1072 N GLN A 940 51.932 45.294 31.111 1.00 20.00 ATOM 1073 CA GLN A 940 51.932 45.294 31.111 1.00 20.00 ATOM 1073 CA GLN A 940 51.932 45.294 31.111 1.00 20.00 ATOM 1075 C GLN A 940 53.944 47.477 29.163 1.00 20.00 ATOM 1076 CB GLN A 940 53.944 47.477 29.163 1.00 20.00 ATOM 1076 CB GLN A 940 53.944 47.477 29.163 1.00 20.00 ATOM 1076 CB GLN A 940 51.330 45.696 28.788 1.00 20.00 ATOM 1077 CG GLN A 940 52.680 45.571 25.496 1.00 20.00 ATOM 1078 CD GLN A 940 52.680 45.571 25.496 1.00 20.00 ATOM 1079 DEI GLN A 940 52.680 45.571 25.496 1.00 20.00 ATOM 1079 DEI GLN A 940 52.680 45.571 25.496 1.00 20.00 ATOM 1079 DEI GLN A 940 52.680 45.571 25.496 1.00 20.00 ATOM 1080 NEZ GLN A 940 52.580 47.832 30.887 1.00 20.00 ATOM 1080 NEZ GLN A 940 52.508 47.832 30.887 1.00 20.00 ATOM 1080 NEZ GLN A 940 52.591 47.932 30.887 1.00 20.00 ATOM 1085 CA LEU A 941 52.918 49.212 31.110 1.00 20.00 ATOM 1086 C LEU A 941 52.918 49.212 31.110 1.00 20.00 ATOM 1086 C LEU A 941 52.918 49.312 31.110 1.00 20.00 ATOM 1080 CB LEU A 941 55.074 50.181 31.231 1.00 20.00 ATOM 1080 CG LEU A 941 55.074 50.181 31.231 1.00 20.00 ATOM 1090 CD1 LEU A 941 55.074 50.181 31.231 1.00 20.00 ATOM 1090 CD1 LEU A 941 55.074 50.500 31.161 1.00 20.00 ATOM 1090 CD LEU A 941 55.852 48.863 33.431 1.00 20.00 ATOM 1090 CD LEU A 941 55.852 48.863 33.431 1.00 20.00 ATOM 1090 CD LEU A 942 55.852 48.863 33.431 1.00 20.00 ATOM 1090 CD LEU A 942 55.852 48.863 33.431 1.00 20.00 ATOM 1090 CD LEU A 942 55.852 48.863 33.431 1.00 20.00 ATOM 1090 CD LEU A 942 55.852 48.863 33.431 1.00 20.00 ATOM 1090 CD LEU A 942 55.852 48.863 33.431 1.00 20.00 ATOM 1090 CD LEU A 942 55.852 48.863 33.491 1.00 20.00 ATOM 1090 CD LEU A 942 54.551 49.936 35.793 1.00 20.00 ATOM 1000 CD LEU A 943 56.804 57.91 49.936 35.793 1.00 20.00										
ATOM 1065 CG GLN A 939 52.28 42.909 35.046 1.00 20.00 ATOM 1066 CD GLN A 939 53.756 42.716 35.473 1.00 20.00 ATOM 1067 OET GLN A 939 54.595 42.185 34.711 1.00 20.00 ATOM 1068 NE2 GLN A 939 54.665 43.139 36.700 1.00 20.00 ATOM 1072 N GLN A 940 51.932 45.294 31.111 1.00 20.00 ATOM 1073 CA GLN A 940 52.445 45.696 29.813 1.00 20.00 ATOM 1074 C GLN A 940 53.040 47.092 29.913 1.00 20.00 ATOM 1075 O GLN A 940 53.040 47.092 29.913 1.00 20.00 ATOM 1076 CB GLN A 940 53.040 47.092 29.913 1.00 20.00 ATOM 1077 CG GLN A 940 51.330 45.696 28.788 1.00 20.00 ATOM 1077 CG GLN A 940 51.695 46.374 27.506 1.00 20.00 ATOM 1078 CD GLN A 940 52.680 45.571 25.496 1.00 20.00 ATOM 1087 CG GLN A 940 52.680 45.571 25.496 1.00 20.00 ATOM 1088 NEZ GLN A 940 52.680 45.571 25.496 1.00 20.00 ATOM 1080 NEZ GLN A 940 52.680 45.571 25.496 1.00 20.00 ATOM 1084 N LEU A 941 52.523 47.332 08.887 1.00 20.00 ATOM 1086 C LEU A 941 52.523 47.332 08.887 1.00 20.00 ATOM 1086 C LEU A 941 55.074 50.181 31.231 1.00 20.00 ATOM 1088 CB LEU A 941 55.074 50.181 31.231 1.00 20.00 ATOM 1089 CG LEU A 941 55.074 50.181 31.231 1.00 20.00 ATOM 1089 CG LEU A 941 55.074 50.181 31.231 1.00 20.00 ATOM 1090 CD1 LEU A 941 55.074 50.503 31.944 1.00 20.00 ATOM 1099 CD2 LEU A 941 55.074 50.181 31.231 1.00 20.00 ATOM 1099 CD2 LEU A 941 55.074 50.887 31.933 1.00 20.00 ATOM 1099 CD2 LEU A 941 55.074 50.887 31.933 1.00 20.00 ATOM 1099 CD2 LEU A 941 55.074 50.887 31.933 1.00 20.00 ATOM 1099 CD2 LEU A 942 55.882 48.863 33.431 1.00 20.00 ATOM 1099 CD2 LEU A 942 55.882 48.863 33.431 1.00 20.00 ATOM 1099 CD2 LEU A 942 55.882 48.863 33.431 1.00 20.00 ATOM 1099 CD2 LEU A 942 55.882 48.863 33.431 1.00 20.00 ATOM 1099 CD2 LEU A 942 55.882 48.863 33.431 1.00 20.00 ATOM 1099 CD2 LEU A 942 55.882 48.863 33.431 1.00 20.00 ATOM 1090 CD2 LEU A 942 55.882 48.863 33.431 1.00 20.00 ATOM 1090 CD2 LEU A 942 55.882 48.863 33.431 1.00 20.00 ATOM 1090 CD2 LEU A 942 54.571 48.790 29.894 1.00 20.00 ATOM 1090 CD2 LEU A 942 54.571 48.790 29.894 1.00 20.00 ATOM 1090 CD2 LEU A 942 54.571 48.790 29.894 1.00 20.0										
ATOM 1066 CD GLN A 939 53.756 42.716 35.473 1.00 20.00 ATOM 1067 0E1 GLN A 939 54.595 42.185 34.711 1.00 20.00 ATOM 1068 NE2 GLN A 939 54.595 42.185 34.711 1.00 20.00 ATOM 1072 N GLN A 940 51.932 45.294 31.111 1.00 20.00 ATOM 1073 CA GLN A 940 52.445 45.656 29.813 1.00 20.00 ATOM 1074 C GLN A 940 52.445 45.656 29.813 1.00 20.00 ATOM 1075 O GLN A 940 53.944 47.072 29.163 1.00 20.00 ATOM 1075 O GLN A 940 53.944 47.477 29.163 1.00 20.00 ATOM 1076 CB GLN A 940 51.695 46.374 27.506 1.00 20.00 ATOM 1077 CG GLN A 940 51.695 46.374 27.506 1.00 20.00 ATOM 1078 CD GLN A 940 52.680 45.571 25.496 1.00 20.00 ATOM 1078 CD GLN A 940 52.703 45.592 26.720 1.00 20.00 ATOM 1080 NEZ GLN A 940 52.503 45.592 26.720 1.00 20.00 ATOM 1080 NEZ GLN A 940 53.591 44.934 27.418 1.00 20.00 ATOM 1080 NEZ GLN A 940 53.591 44.934 27.418 1.00 20.00 ATOM 1080 NEZ GLN A 941 52.523 47.832 30.887 1.00 20.00 ATOM 1080 C LEU A 941 52.918 49.212 31.110 1.00 20.00 ATOM 1080 C LEU A 941 52.918 49.212 31.110 1.00 20.00 ATOM 1080 C LEU A 941 55.074 50.181 31.231 1.00 20.00 ATOM 1080 C LEU A 941 55.074 50.181 31.231 1.00 20.00 ATOM 1080 C LEU A 941 55.074 50.181 31.231 1.00 20.00 ATOM 1080 C LEU A 941 55.074 50.181 31.231 1.00 20.00 ATOM 1090 CD1 LEU A 941 50.700 50.500 31.161 1.00 20.00 ATOM 1090 CD1 LEU A 941 50.700 50.500 31.161 1.00 20.00 ATOM 1090 CD1 LEU A 941 50.700 50.500 31.161 1.00 20.00 ATOM 1090 CD1 LEU A 942 55.882 48.863 33.431 1.00 20.00 ATOM 1090 CD1 LEU A 942 55.882 48.863 33.431 1.00 20.00 ATOM 1090 CD2 LEU A 942 55.882 48.863 33.431 1.00 20.00 ATOM 1090 CD2 LEU A 942 55.882 48.863 33.431 1.00 20.00 ATOM 1090 CD2 LEU A 942 55.882 48.863 33.431 1.00 20.00 ATOM 1090 CD2 LEU A 942 55.882 48.863 33.431 1.00 20.00 ATOM 1090 CD2 LEU A 942 55.882 48.863 33.431 1.00 20.00 ATOM 1090 CD2 LEU A 942 55.882 48.863 33.431 1.00 20.00 ATOM 1090 CD2 LEU A 942 55.885 49.996 35.799 1.00 20.00 ATOM 1000 CD2 LEU A 942 54.501 49.996 35.799 1.00 20.00 ATOM 1000 CD2 LEU A 943 56.509 47.781 29.996 1.00 20.00 ATOM 1000 CD2 LEU A 943 56.509 47.781 29.996 1.00 20.00							•			
ATOM 1067 OE1 GLN A 939										
ATOM 1068 NE2 GLN A 939										
ATOM 1072 N GLN A 940 51.932 45.294 31.111 1.00 20.00 ATOM 1073 CA GLN A 940 52.445 45.696 29.813 1.00 20.00 ATOM 1075 C GLN A 940 53.040 47.092 29.913 1.00 20.00 ATOM 1075 C GLN A 940 53.040 47.092 29.9163 1.00 20.00 ATOM 1076 CB GLN A 940 51.330 45.696 28.788 1.00 20.00 ATOM 1076 CB GLN A 940 51.330 45.696 28.788 1.00 20.00 ATOM 1077 CG GLN A 940 51.330 45.696 28.788 1.00 20.00 ATOM 1078 CD GLN A 940 52.680 46.374 27.506 1.00 20.00 ATOM 1079 CEI GLN A 940 52.680 45.571 25.496 1.00 20.00 ATOM 1079 CEI GLN A 940 52.680 45.571 25.496 1.00 20.00 ATOM 1080 NEZ GLN A 940 52.680 45.571 25.496 1.00 20.00 ATOM 1084 N LEU A 941 52.523 47.832 30.887 1.00 20.00 ATOM 1085 CA LEU A 941 52.918 49.212 31.110 1.00 20.00 ATOM 1086 C LEU A 941 55.074 50.181 31.231 1.00 20.00 ATOM 1088 CB LEU A 941 55.074 50.181 31.231 1.00 20.00 ATOM 1088 CB LEU A 941 55.074 50.181 31.231 1.00 20.00 ATOM 1089 CG LEU A 941 50.187 51.653 31.924 1.00 20.00 ATOM 1090 CD1 LEU A 941 50.187 51.653 31.924 1.00 20.00 ATOM 1090 CD1 LEU A 941 50.187 51.653 31.924 1.00 20.00 ATOM 1091 CD2 LEU A 941 50.187 51.653 31.924 1.00 20.00 ATOM 1090 CD1 LEU A 941 50.187 51.653 31.924 1.00 20.00 ATOM 1090 CD1 LEU A 941 50.187 51.653 31.924 1.00 20.00 ATOM 1090 CD2 LEU A 941 50.187 51.653 31.924 1.00 20.00 ATOM 1090 CD1 LEU A 941 50.187 51.653 31.924 1.00 20.00 ATOM 1090 CD2 LEU A 942 55.882 48.863 33.431 1.00 20.00 ATOM 1090 CD2 LEU A 942 55.882 48.863 33.431 1.00 20.00 ATOM 1095 C LEU A 942 55.882 48.204 32.440 1.00 20.00 ATOM 1096 C LEU A 942 55.955 48.147 34.756 1.00 20.00 ATOM 1097 CB LEU A 942 55.955 48.843 33.431 1.00 20.00 ATOM 1090 CD2 LEU A 942 55.955 48.843 33.431 1.00 20.00 ATOM 1090 CD2 LEU A 942 54.571 48.730 35.699 1.00 20.00 ATOM 1090 CD2 LEU A 942 54.571 48.730 35.699 1.00 20.00 ATOM 1000 CD2 LEU A 942 54.500 47.781 29.936 1.00 20.00 ATOM 1000 CD2 LEU A 943 56.309 47.201 31.761 1.00 20.00 ATOM 1000 CD2 LEU A 943 56.300 47.201 31.761 1.00 20.00 ATOM 1100 CD2 LEU A 943 56.634 43.054 29.936 1.00 20.00 ATOM 1100 CD2 LEU A 943 56.634 43.054 29.936 1.00 20.										
ATOM 1073 CA GLN A 940 52.445 45.696 29.813 1.00 20.00 ATOM 1074 C GLN A 940 53.040 47.092 29.913 1.00 20.00 ATOM 1075 C GLN A 940 53.040 47.092 29.913 1.00 20.00 ATOM 1076 CB GLN A 940 51.330 45.696 28.788 1.00 20.00 ATOM 1077 CG GLN A 940 51.330 45.696 28.788 1.00 20.00 ATOM 1077 CG GLN A 940 51.695 46.374 27.506 1.00 20.00 ATOM 1079 CB GLN A 940 52.680 45.571 25.496 1.00 20.00 ATOM 1079 CB GLN A 940 52.680 45.571 25.496 1.00 20.00 ATOM 1080 NE2 GLN A 940 52.680 45.571 25.496 1.00 20.00 ATOM 1080 NE2 GLN A 941 52.523 47.832 30.887 1.00 20.00 ATOM 1085 CA LEU A 941 52.928 49.397 31.744 1.00 20.00 ATOM 1085 CA LEU A 941 52.928 49.397 31.744 1.00 20.00 ATOM 1086 CB LEU A 941 55.074 50.181 31.231 1.00 20.00 ATOM 1088 CB LEU A 941 55.855 49.924 31.933 1.00 20.00 ATOM 1089 CG LEU A 941 50.700 50.500 31.161 1.00 20.00 ATOM 1089 CG LEU A 941 50.700 50.500 31.161 1.00 20.00 ATOM 1090 CD1 LEU A 941 50.700 50.500 31.161 1.00 20.00 ATOM 1090 CD1 LEU A 941 50.700 50.500 31.161 1.00 20.00 ATOM 1090 CD1 LEU A 941 50.700 50.500 31.161 1.00 20.00 ATOM 1090 CD1 LEU A 941 50.700 50.500 31.161 1.00 20.00 ATOM 1090 CD1 LEU A 941 50.187 51.653 31.924 1.00 20.00 ATOM 1090 CD1 LEU A 942 55.882 48.863 33.431 1.00 20.00 ATOM 1090 CD1 LEU A 942 55.882 48.863 32.283 1.00 20.00 ATOM 1090 CD1 LEU A 942 55.882 48.863 32.283 1.00 20.00 ATOM 1090 CD1 LEU A 942 55.882 48.863 32.283 1.00 20.00 ATOM 1090 CD1 LEU A 942 55.882 48.863 32.283 1.00 20.00 ATOM 1090 CD1 LEU A 942 55.882 48.863 32.283 1.00 20.00 ATOM 1090 CD1 LEU A 942 55.882 48.863 32.283 1.00 20.00 ATOM 1090 CD1 LEU A 942 55.882 48.863 32.283 1.00 20.00 ATOM 1090 CD1 LEU A 942 55.882 48.863 32.283 1.00 20.00 ATOM 1090 CD1 LEU A 942 55.882 48.863 32.283 1.00 20.00 ATOM 1090 CD1 LEU A 942 55.862 49.936 35.793 1.00 20.00 ATOM 1000 CD2 LEU A 942 55.862 49.936 35.793 1.00 20.00 ATOM 1000 CD2 LEU A 942 55.955 48.147 34.756 1.00 20.00 ATOM 1000 CD2 LEU A 942 54.564 49.936 35.793 1.00 20.00 ATOM 1100 CD2 LEU A 943 56.509 47.201 31.761 1.00 20.00 ATOM 1100 CD2 LEU A 943 56.509 47.201 31.761 1										
ATOM 1074 C GLN A 940 53.040 47.092 29.913 1.00 20.00 ATOM 1075 O GLN A 940 53.944 47.477 29.163 1.00 20.00 ATOM 1076 CB GLN A 940 51.330 45.696 28.788 1.00 20.00 ATOM 1077 CG GLN A 940 51.330 45.696 28.788 1.00 20.00 ATOM 1078 CD GLN A 940 52.680 45.571 25.496 1.00 20.00 ATOM 1079 OEI GLN A 940 52.680 45.571 25.496 1.00 20.00 ATOM 1080 NE2 GLN A 940 52.680 45.571 25.496 1.00 20.00 ATOM 1080 NE2 GLN A 940 53.591 44.934 27.418 1.00 20.00 ATOM 1084 N LEU A 941 52.523 47.832 30.887 1.00 20.00 ATOM 1085 CA LEU A 941 52.523 47.832 30.887 1.00 20.00 ATOM 1086 C LEU A 941 52.523 47.832 30.887 1.00 20.00 ATOM 1086 C LEU A 941 55.574 50.181 31.231 1.00 20.00 ATOM 1088 CB LEU A 941 55.074 50.181 31.231 1.00 20.00 ATOM 1088 CB LEU A 941 51.855 49.924 31.933 1.00 20.00 ATOM 1089 CG LEU A 941 51.855 49.924 31.933 1.00 20.00 ATOM 1090 CD1 LEU A 941 50.700 50.500 31.161 1.00 20.00 ATOM 1090 CD1 LEU A 941 50.700 50.500 31.161 1.00 20.00 ATOM 1090 CD2 LEU A 941 51.855 49.924 31.933 1.00 20.00 ATOM 1090 CD1 LEU A 941 55.876 50.187 51.653 31.924 1.00 20.00 ATOM 1090 CD1 LEU A 941 50.870 50.500 31.161 1.00 20.00 ATOM 1090 CD1 LEU A 941 50.870 50.800 31.161 1.00 20.00 ATOM 1090 CD2 LEU A 942 54.571 48.720 32.848 1.00 20.00 ATOM 1090 CD2 LEU A 942 54.571 48.720 32.848 1.00 20.00 ATOM 1090 CD2 LEU A 942 55.882 48.863 33.431 1.00 20.00 ATOM 1090 CD2 LEU A 942 55.955 48.147 34.756 1.00 20.00 ATOM 1090 CD2 LEU A 942 55.955 48.147 34.756 1.00 20.00 ATOM 1090 CD2 LEU A 942 55.955 48.147 34.756 1.00 20.00 ATOM 1090 CD2 LEU A 942 54.526 49.936 35.793 1.00 20.00 ATOM 1090 CD2 LEU A 942 54.564 49.936 35.793 1.00 20.00 ATOM 1100 CD2 LEU A 943 56.509 47.761 36.943 1.00 20.00 ATOM 1100 CD2 LEU A 943 56.509 47.501 31.761 1.00 20.00 ATOM 1100 CD2 LEU A 943 56.509 47.501 31.761 1.00 20.00 ATOM 1100 CD2 LEU A 943 56.509 47.781 29.936 1.00 20.00 ATOM 1100 CD2 LEU A 943 56.509 47.781 29.936 1.00 20.00 ATOM 1100 CD2 LEU A 943 56.509 47.781 29.936 1.00 20.00 ATOM 1100 CD2 LEU A 943 56.509 47.781 29.936 1.00 20.00 ATOM 1100 CD2 HIS A 943 56.509 47.781 29										
ATOM 1075 O GLN A 940 53.944 47.477 29.163 1.00 20.00 ATOM 1076 CB GLN A 940 51.330 45.696 28.788 1.00 20.00 ATOM 1077 CG GLN A 940 51.695 46.374 27.506 1.00 20.00 ATOM 1079 OE1 GLN A 940 52.703 45.592 26.720 1.00 20.00 ATOM 1079 OE1 GLN A 940 52.680 45.571 25.496 1.00 20.00 ATOM 1080 NE2 GLN A 940 53.591 44.934 27.418 1.00 20.00 ATOM 1084 N LEU A 941 52.523 47.832 30.887 1.00 20.00 ATOM 1085 CA LEU A 941 52.523 47.832 30.887 1.00 20.00 ATOM 1086 C LEU A 941 52.523 47.832 31.110 1.00 20.00 ATOM 1088 CB LEU A 941 55.074 50.181 31.231 1.00 20.00 ATOM 1088 CB LEU A 941 55.074 50.181 31.231 1.00 20.00 ATOM 1089 CG LEU A 941 50.700 50.500 31.161 1.00 20.00 ATOM 1090 CD1 LEU A 941 50.780 50.500 31.161 1.00 20.00 ATOM 1090 CD1 LEU A 941 51.39 50.904 29.785 1.00 20.00 ATOM 1091 CD2 LEU A 942 54.571 48.720 32.848 1.00 20.00 ATOM 1093 N LEU A 942 54.571 48.720 32.848 1.00 20.00 ATOM 1094 CA LEU A 942 55.882 48.863 33.431 1.00 20.00 ATOM 1095 C LEU A 942 55.882 48.863 33.431 1.00 20.00 ATOM 1097 CB LEU A 942 55.882 48.863 33.431 1.00 20.00 ATOM 1099 CD1 LEU A 942 55.882 48.863 33.431 1.00 20.00 ATOM 1099 CD1 LEU A 942 55.882 48.863 33.431 1.00 20.00 ATOM 1099 CD LEU A 942 55.882 48.863 33.431 1.00 20.00 ATOM 1090 CD1 LEU A 942 55.882 48.863 33.431 1.00 20.00 ATOM 1097 CB LEU A 942 55.882 48.863 33.431 1.00 20.00 ATOM 1097 CB LEU A 942 55.882 48.863 33.431 1.00 20.00 ATOM 1097 CB LEU A 942 55.852 48.863 33.431 1.00 20.00 ATOM 1097 CB LEU A 942 55.955 48.147 34.756 1.00 20.00 ATOM 1097 CB LEU A 942 55.955 48.147 34.756 1.00 20.00 ATOM 1098 CG LEU A 942 55.955 48.147 34.756 1.00 20.00 ATOM 1098 CG LEU A 942 55.955 48.147 34.756 1.00 20.00 ATOM 1090 CD1 LEU A 942 55.955 48.147 34.756 1.00 20.00 ATOM 1100 CD2 LEU A 943 56.309 47.201 31.761 1.00 20.00 ATOM 1100 CD2 LEU A 943 56.309 47.201 31.761 1.00 20.00 ATOM 1100 CD2 LEU A 943 56.630 47.201 31.761 1.00 20.00 ATOM 1100 CD2 LEU A 943 56.634 44.159 30.350 1.00 20.00 ATOM 1100 CD2 HIS A 943 56.634 44.159 30.350 1.00 20.00 ATOM 1100 CD2 HIS A 943 56.634 44.159 30.427 1.00 20.00 A										
ATOM 1076 CB GLN A 940 51.330 45.696 28.788 1.00 20.00 ATOM 1077 CG GLN A 940 51.695 46.374 27.506 1.00 20.00 ATOM 1078 CD GLN A 940 52.680 45.571 25.496 1.00 20.00 ATOM 1079 OE1 GLN A 940 52.680 45.571 25.496 1.00 20.00 ATOM 1080 NE2 GLN A 940 52.680 45.571 25.496 1.00 20.00 ATOM 1080 NE2 GLN A 940 52.680 45.571 25.496 1.00 20.00 ATOM 1084 N LEU A 941 52.523 47.832 30.887 1.00 20.00 ATOM 1085 CA LEU A 941 52.523 47.832 30.887 1.00 20.00 ATOM 1086 C LEU A 941 54.285 49.212 31.110 1.00 20.00 ATOM 1087 O LEU A 941 55.074 50.181 31.231 1.00 20.00 ATOM 1088 CB LEU A 941 55.074 50.181 31.231 1.00 20.00 ATOM 1089 CG LEU A 941 50.700 50.500 31.161 1.00 20.00 ATOM 1090 CD1 LEU A 941 50.700 50.500 31.161 1.00 20.00 ATOM 1091 CD2 LEU A 941 51.139 50.904 29.785 1.00 20.00 ATOM 1093 N LEU A 942 54.571 48.720 32.848 1.00 20.00 ATOM 1094 CA LEU A 942 55.882 48.863 33.431 1.00 20.00 ATOM 1095 C LEU A 942 55.882 48.863 33.431 1.00 20.00 ATOM 1097 CB LEU A 942 55.955 48.147 34.756 1.00 20.00 ATOM 1099 CD1 LEU A 942 55.955 48.147 34.756 1.00 20.00 ATOM 1099 CD LEU A 942 54.907 47.676 36.943 1.00 20.00 ATOM 1099 CD LEU A 942 54.907 47.676 36.943 1.00 20.00 ATOM 1099 CD LEU A 942 55.955 48.147 34.756 1.00 20.00 ATOM 1099 CD LEU A 942 54.907 47.676 36.943 1.00 20.00 ATOM 1099 CD LEU A 942 54.907 47.676 36.943 1.00 20.00 ATOM 1099 CD LEU A 942 54.907 47.676 36.943 1.00 20.00 ATOM 1090 CD LEU A 942 54.507 47.676 36.943 1.00 20.00 ATOM 1000 CD LEU A 942 54.507 47.506 29.894 1.00 20.00 ATOM 1100 CD LEU A 943 55.755 48.147 34.756 1.00 20.00 ATOM 1100 CD LEU A 943 55.755 48.997 47.201 31.761 1.00 20.00 ATOM 1100 CD LEU A 943 55.754 47.596 29.894 1.00 20.00 ATOM 1100 CD HIS A 943 56.302 45.586 29.997 1.00 20.00 ATOM 1100 CD HIS A 943 56.549 44.159 30.350 1.00 20.00 ATOM 1100 CD HIS A 943 56.549 44.159 30.350 1.00 20.00 ATOM 1100 CD HIS A 943 56.630 47.721 31.649 1.00 20.00 ATOM 1100 CD HIS A 943 56.634 43.054 29.597 1.00 20.00 ATOM 1100 CD HIS A 943 56.634 44.159 30.350 1.00 20.00 ATOM 1100 CD HIS A 943 56.634 44.159 30.350 1.00 20.00 ATO										
ATOM 1077 CG GLN A 940 51.695 46.374 27.506 1.00 20.00 ATOM 1078 CD GLN A 940 52.703 45.592 26.720 1.00 20.00 ATOM 1080 NE2 GLN A 940 52.680 45.571 25.496 1.00 20.00 ATOM 1080 NE2 GLN A 940 53.591 44.934 27.418 1.00 20.00 ATOM 1084 N LEU A 941 52.523 47.832 30.887 1.00 20.00 ATOM 1085 CA LEU A 941 52.523 47.832 30.887 1.00 20.00 ATOM 1086 C LEU A 941 52.523 47.832 31.110 1.00 20.00 ATOM 1086 C LEU A 941 55.074 50.181 31.231 1.00 20.00 ATOM 1088 CB LEU A 941 55.074 50.181 31.231 1.00 20.00 ATOM 1089 CG LEU A 941 50.700 50.500 31.161 1.00 20.00 ATOM 1089 CG LEU A 941 50.700 50.500 31.161 1.00 20.00 ATOM 1090 CD1 LEU A 941 50.187 51.653 31.924 1.00 20.00 ATOM 1091 CD2 LEU A 941 51.139 50.904 29.785 1.00 20.00 ATOM 1093 N LEU A 942 54.571 48.720 32.848 1.00 20.00 ATOM 1094 CA LEU A 942 55.882 48.863 33.431 1.00 20.00 ATOM 1095 C LEU A 942 55.882 48.863 32.283 1.00 20.00 ATOM 1097 CB LEU A 942 55.955 48.147 34.756 1.00 20.00 ATOM 1099 CD1 LEU A 942 55.955 48.147 34.756 1.00 20.00 ATOM 1099 CD LEU A 942 55.955 48.147 34.756 1.00 20.00 ATOM 1099 CD LEU A 942 55.955 48.147 34.756 1.00 20.00 ATOM 1099 CD LEU A 942 55.955 48.147 34.756 1.00 20.00 ATOM 1099 CD LEU A 942 55.955 48.147 34.756 1.00 20.00 ATOM 1099 CD LEU A 942 54.501 48.399 35.609 1.00 20.00 ATOM 1009 CD LEU A 942 54.501 48.399 35.609 1.00 20.00 ATOM 1009 CD LEU A 942 54.501 48.399 35.609 1.00 20.00 ATOM 1009 CD LEU A 942 54.501 49.936 35.793 1.00 20.00 ATOM 1100 CD LEU A 943 55.955 48.147 34.756 1.00 20.00 ATOM 1100 CD LEU A 943 55.509 47.761 29.936 1.00 20.00 ATOM 1100 CD LEU A 943 56.309 47.761 29.936 1.00 20.00 ATOM 1100 CD HIS A 943 56.309 47.761 29.936 1.00 20.00 ATOM 1100 CD HIS A 943 56.302 45.586 29.997 1.00 20.00 ATOM 1100 CD HIS A 943 56.549 44.159 30.350 1.00 20.00 ATOM 1100 CD HIS A 943 56.549 44.159 30.350 1.00 20.00 ATOM 1100 CD HIS A 943 56.630 47.781 29.936 1.00 20.00 ATOM 1100 CD HIS A 943 56.634 43.054 29.597 1.00 20.00 ATOM 1100 CD HIS A 943 56.634 44.159 30.350 1.00 20.00 ATOM 1100 CD HIS A 943 56.634 44.159 30.350 1.00 20.00 ATOM 1100 C										
ATOM 1078 CD GLN A 940 52.703 45.592 26.720 1.00 20.00 ATOM 1079 CB1 GLN A 940 52.680 45.571 25.496 1.00 20.00 ATOM 1080 NE2 GLN A 940 53.591 44.934 27.418 1.00 20.00 ATOM 1084 N LEU A 941 52.523 47.832 30.887 1.00 20.00 ATOM 1085 CA LEU A 941 52.523 47.832 30.887 1.00 20.00 ATOM 1086 C LEU A 941 52.918 49.212 31.110 1.00 20.00 ATOM 1087 O LEU A 941 55.074 50.181 31.231 1.00 20.00 ATOM 1088 CB LEU A 941 55.074 50.181 31.231 1.00 20.00 ATOM 1088 CB LEU A 941 55.074 50.181 31.231 1.00 20.00 ATOM 1089 CG LEU A 941 50.700 50.500 31.161 1.00 20.00 ATOM 1099 CD1 LEU A 941 50.187 51.653 31.924 1.00 20.00 ATOM 1091 CD2 LEU A 941 51.855 49.924 31.933 1.00 20.00 ATOM 1093 N LEU A 942 54.571 48.720 32.848 1.00 20.00 ATOM 1093 N LEU A 942 55.882 48.863 33.431 1.00 20.00 ATOM 1095 C LEU A 942 55.882 48.863 33.431 1.00 20.00 ATOM 1096 CD LEU A 942 55.882 48.863 33.431 1.00 20.00 ATOM 1097 CB LEU A 942 55.955 48.147 34.756 1.00 20.00 ATOM 1099 CD LEU A 942 54.571 48.720 32.848 1.00 20.00 ATOM 1099 CD LEU A 942 55.955 48.147 34.756 1.00 20.00 ATOM 1099 CB LEU A 942 54.731 48.399 35.609 1.00 20.00 ATOM 1099 CD LEU A 942 54.731 48.399 35.609 1.00 20.00 ATOM 1099 CD LEU A 942 54.731 48.399 35.609 1.00 20.00 ATOM 1099 CD LEU A 942 54.731 48.399 35.609 1.00 20.00 ATOM 1009 CD LEU A 942 54.731 48.399 35.609 1.00 20.00 ATOM 1009 CD LEU A 942 54.731 48.399 35.609 1.00 20.00 ATOM 1009 CD LEU A 942 54.731 48.399 35.609 1.00 20.00 ATOM 1000 CD LEU A 942 54.731 48.399 35.609 1.00 20.00 ATOM 1000 CD LEU A 942 54.731 48.399 35.609 1.00 20.00 ATOM 1000 CD LEU A 942 54.731 48.790 35.609 1.00 20.00 ATOM 1000 CD LEU A 942 54.731 48.790 35.609 1.00 20.00 ATOM 1100 CD LEU A 942 54.731 48.790 35.609 1.00 20.00 ATOM 1100 CD LEU A 942 54.731 48.790 35.609 1.00 20.00 ATOM 1100 CD LEU A 943 56.309 47.201 31.761 1.00 20.00 ATOM 1100 CD LEU A 943 56.309 47.201 31.761 1.00 20.00 ATOM 1100 CD LEU A 943 56.309 47.201 31.761 1.00 20.00 ATOM 1100 CD HIS A 943 56.549 44.159 30.350 1.00 20.00 ATOM 1100 CD HIS A 943 56.549 44.159 30.350 1.00 20.00 ATOM 1100 CD										
ATOM 1079 OE1 GLN A 940										
ATOM 1080 NE2 GLN A 940 53.591 44.934 27.418 1.00 20.00 ATOM 1084 N LEU A 941 52.523 47.832 30.887 1.00 20.00 ATOM 1085 CA LEU A 941 52.918 49.212 31.110 1.00 20.00 ATOM 1086 C LEU A 941 54.285 49.397 31.744 1.00 20.00 ATOM 1087 O LEU A 941 55.074 50.181 31.231 1.00 20.00 ATOM 1088 CB LEU A 941 55.074 50.181 31.231 1.00 20.00 ATOM 1089 CG LEU A 941 50.700 50.500 31.161 1.00 20.00 ATOM 1090 CD1 LEU A 941 50.700 50.500 31.161 1.00 20.00 ATOM 1090 CD1 LEU A 941 50.187 51.653 31.924 1.00 20.00 ATOM 1091 CD2 LEU A 941 51.839 50.904 29.785 1.00 20.00 ATOM 1093 N LEU A 942 54.571 48.720 32.848 1.00 20.00 ATOM 1094 CA LEU A 942 55.882 48.863 33.431 1.00 20.00 ATOM 1095 C LEU A 942 56.822 48.863 33.431 1.00 20.00 ATOM 1095 C LEU A 942 56.822 48.204 32.440 1.00 20.00 ATOM 1097 CB LEU A 942 55.955 48.147 34.756 1.00 20.00 ATOM 1099 CD1 LEU A 942 54.731 48.399 35.609 1.00 20.00 ATOM 1099 CD1 LEU A 942 54.731 48.399 35.609 1.00 20.00 ATOM 1099 CD1 LEU A 942 54.731 48.399 35.609 1.00 20.00 ATOM 1090 CD2 LEU A 942 54.731 48.399 35.609 1.00 20.00 ATOM 1090 CD2 LEU A 942 54.731 48.399 35.609 1.00 20.00 ATOM 1100 CD2 LEU A 942 54.526 49.936 35.793 1.00 20.00 ATOM 1100 CD2 LEU A 942 54.526 49.936 35.793 1.00 20.00 ATOM 1100 CD2 LEU A 942 54.526 49.936 35.793 1.00 20.00 ATOM 1100 CD2 LEU A 943 56.309 47.201 31.761 1.00 20.00 ATOM 1103 CA HIS A 943 56.309 47.201 31.761 1.00 20.00 ATOM 1104 C HIS A 943 56.309 47.201 31.761 1.00 20.00 ATOM 1105 O HIS A 943 56.302 45.586 29.997 1.00 20.00 ATOM 1106 CB HIS A 943 56.549 47.751 29.936 1.00 20.00 ATOM 1108 ND1 HIS A 943 56.549 47.751 29.936 1.00 20.00 ATOM 1108 ND1 HIS A 943 56.549 47.751 29.936 1.00 20.00 ATOM 1108 ND1 HIS A 943 56.549 47.751 29.936 1.00 20.00 ATOM 1108 ND1 HIS A 943 56.549 47.751 29.936 1.00 20.00 ATOM 1108 ND1 HIS A 943 56.549 47.751 29.936 1.00 20.00 ATOM 1108 ND1 HIS A 943 56.549 47.751 29.936 1.00 20.00 ATOM 1108 ND1 HIS A 943 56.549 47.751 29.936 1.00 20.00 ATOM 1105 N PHE A 944 56.929 48.278 29.084 1.00 20.00 20.00 ATOM 1115 N PHE A 944 56.929 48.278 29.084 1.00 2										
ATOM 1084 N LEU A 941 52.523 47.832 30.887 1.00 20.00 ATOM 1085 CA LEU A 941 52.918 49.212 31.110 1.00 20.00 ATOM 1086 C LEU A 941 55.074 50.181 31.231 1.00 20.00 ATOM 1087 O LEU A 941 55.074 50.181 31.231 1.00 20.00 ATOM 1088 CB LEU A 941 55.074 50.181 31.231 1.00 20.00 ATOM 1089 CG LEU A 941 50.700 50.500 31.161 1.00 20.00 ATOM 1090 CD1 LEU A 941 50.187 51.653 31.924 1.00 20.00 ATOM 1091 CD2 LEU A 941 51.139 50.904 29.785 1.00 20.00 ATOM 1093 N LEU A 942 54.571 48.720 32.848 1.00 20.00 ATOM 1094 CA LEU A 942 55.882 48.863 33.431 1.00 20.00 ATOM 1095 C LEU A 942 55.882 48.863 33.431 1.00 20.00 ATOM 1097 CB LEU A 942 55.955 48.147 34.756 1.00 20.00 ATOM 1099 CD1 LEU A 942 55.955 48.147 34.756 1.00 20.00 ATOM 1099 CD1 LEU A 942 54.571 48.399 35.609 1.00 20.00 ATOM 1099 CD1 LEU A 942 54.907 47.676 36.943 1.00 20.00 ATOM 1099 CD1 LEU A 942 54.526 49.936 35.793 1.00 20.00 ATOM 1090 CD2 LEU A 942 54.526 49.936 35.793 1.00 20.00 ATOM 1009 CD2 LEU A 942 54.526 49.936 35.793 1.00 20.00 ATOM 1100 CD2 LEU A 943 57.754 47.596 29.894 1.00 20.00 ATOM 1100 CD2 LEU A 943 57.754 47.596 29.894 1.00 20.00 ATOM 1103 CA HIS A 943 57.127 46.548 30.800 1.00 20.00 ATOM 1104 C HIS A 943 57.754 47.596 29.894 1.00 20.00 ATOM 1104 C HIS A 943 57.754 47.596 29.894 1.00 20.00 ATOM 1105 CB HIS A 943 56.302 45.586 29.997 1.00 20.00 ATOM 1104 C HIS A 943 56.302 45.586 29.997 1.00 20.00 ATOM 1105 CB HIS A 943 56.549 44.159 30.350 1.00 20.00 ATOM 1106 CB HIS A 943 56.549 47.781 29.936 1.00 20.00 ATOM 1107 CG HIS A 943 56.549 47.781 29.936 1.00 20.00 ATOM 1108 ND1 HIS A 943 56.549 47.781 29.936 1.00 20.00 ATOM 1108 ND1 HIS A 943 56.549 47.781 29.936 1.00 20.00 ATOM 1105 CE1 HIS A 943 56.549 47.781 29.936 1.00 20.00 ATOM 1108 ND1 HIS A 943 56.549 47.781 29.936 1.00 20.00 ATOM 1108 ND1 HIS A 943 56.549 47.781 29.936 1.00 20.00 ATOM 1108 ND1 HIS A 943 56.841 41.994 30.427 1.00 20.00 ATOM 1115 N PHE A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1115 N PHE A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1115 N PHE A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1									25.496	
ATOM 1085 CA LEU A 941 52.918 49.212 31.110 1.00 20.00 ATOM 1086 C LEU A 941 54.285 49.397 31.744 1.00 20.00 ATOM 1087 O LEU A 941 55.074 50.181 31.231 1.00 20.00 ATOM 1088 CB LEU A 941 55.074 50.181 31.231 1.00 20.00 ATOM 1089 CG LEU A 941 50.700 50.500 31.161 1.00 20.00 ATOM 1090 CD1 LEU A 941 50.700 50.500 31.161 1.00 20.00 ATOM 1091 CD2 LEU A 941 50.187 51.653 31.924 1.00 20.00 ATOM 1093 N LEU A 942 54.571 48.720 32.848 1.00 20.00 ATOM 1093 N LEU A 942 54.571 48.720 32.848 1.00 20.00 ATOM 1095 C LEU A 942 56.822 48.863 33.431 1.00 20.00 ATOM 1095 C LEU A 942 55.882 48.863 32.283 1.00 20.00 ATOM 1095 C LEU A 942 55.955 48.147 34.756 1.00 20.00 ATOM 1097 CB LEU A 942 55.955 48.147 34.756 1.00 20.00 ATOM 1099 CD1 LEU A 942 54.731 48.399 35.609 1.00 20.00 ATOM 1099 CD1 LEU A 942 54.731 48.399 35.609 1.00 20.00 ATOM 1100 CD2 LEU A 942 54.526 49.936 35.793 1.00 20.00 ATOM 1100 CD2 LEU A 942 54.526 49.936 35.793 1.00 20.00 ATOM 1100 CD2 LEU A 942 54.526 49.936 35.793 1.00 20.00 ATOM 1100 CD2 LEU A 943 56.309 47.201 31.761 1.00 20.00 ATOM 1102 N', HIS A 943 56.309 47.201 31.761 1.00 20.00 ATOM 1103 CA HIS A 943 56.309 47.201 31.761 1.00 20.00 ATOM 1104 C HIS A 943 56.309 47.201 31.761 1.00 20.00 ATOM 1105 O HIS A 943 56.309 47.201 31.761 1.00 20.00 ATOM 1106 CB HIS A 943 56.309 47.201 31.761 1.00 20.00 ATOM 1106 CB HIS A 943 56.302 45.586 29.997 1.00 20.00 ATOM 1106 CB HIS A 943 56.302 45.586 29.997 1.00 20.00 ATOM 1106 CB HIS A 943 56.304 44.599 30.350 1.00 20.00 ATOM 1100 CCE HIS A 943 56.841 41.994 30.350 1.00 20.00 ATOM 1100 CE HIS A 943 56.841 42.427 31.670 1.00 20.00 ATOM 1101 NE2 HIS A 943 56.881 42.427 31.670 1.00 20.00 ATOM 1115 N PHE A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1115 N PHE A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1115 N PHE A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1115 N PHE A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1115 N PHE A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1115 N PHE A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1115 N PHE A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1115 N PHE										
ATOM 1086 C LEU A 941 54.285 49.397 31.744 1.00 20.00 ATOM 1087 O LEU A 941 55.074 50.181 31.231 1.00 20.00 ATOM 1088 CB LEU A 941 55.074 50.181 31.231 1.00 20.00 ATOM 1089 CG LEU A 941 50.700 50.500 31.161 1.00 20.00 ATOM 1090 CD1 LEU A 941 50.187 51.653 31.924 1.00 20.00 ATOM 1091 CD2 LEU A 941 50.187 51.653 31.924 1.00 20.00 ATOM 1093 N LEU A 942 54.571 48.720 32.848 1.00 20.00 ATOM 1094 CA LEU A 942 55.882 48.863 33.431 1.00 20.00 ATOM 1095 C LEU A 942 55.882 48.863 33.431 1.00 20.00 ATOM 1095 C LEU A 942 55.882 48.863 32.243 1.00 20.00 ATOM 1096 O LEU A 942 55.955 48.147 34.756 1.00 20.00 ATOM 1097 CB LEU A 942 55.955 48.147 34.756 1.00 20.00 ATOM 1099 CD1 LEU A 942 54.731 48.399 35.609 1.00 20.00 ATOM 1099 CD1 LEU A 942 54.731 48.399 35.609 1.00 20.00 ATOM 1009 CD1 LEU A 942 54.731 48.399 35.609 1.00 20.00 ATOM 1100 CD2 LEU A 942 54.731 48.399 35.609 1.00 20.00 ATOM 1100 CD2 LEU A 942 54.731 48.399 35.609 1.00 20.00 ATOM 1100 CD2 LEU A 942 54.731 48.399 35.609 1.00 20.00 ATOM 1100 CD2 LEU A 942 54.731 48.399 35.609 1.00 20.00 ATOM 1100 CD2 LEU A 942 54.731 45.56 30.943 1.00 20.00 ATOM 1100 CD2 LEU A 943 56.309 47.201 31.761 1.00 20.00 ATOM 1103 CA HIS A 943 56.309 47.201 31.761 1.00 20.00 ATOM 1103 CA HIS A 943 56.309 47.201 31.761 1.00 20.00 ATOM 1104 C HIS A 943 56.309 47.201 31.761 1.00 20.00 ATOM 1105 O HIS A 943 56.309 47.781 29.936 1.00 20.00 ATOM 1106 CB HIS A 943 56.304 44.599 30.350 1.00 20.00 ATOM 1107 CG HIS A 943 56.549 44.599 30.350 1.00 20.00 ATOM 1107 CG HIS A 943 56.841 42.427 31.670 1.00 20.00 ATOM 1100 CD2 HIS A 943 56.881 42.427 31.670 1.00 20.00 ATOM 1115 N PHE A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1115 N PHE A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1115 N PHE A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1115 N PHE A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1115 N PHE A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1115 N PHE A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1115 N PHE A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1115 N PHE A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1115 N PHE									30.887	
ATOM 1087 O LEU A 941 55.074 50.181 31.231 1.00 20.00 ATOM 1088 CB LEU A 941 50.700 50.500 31.161 1.00 20.00 ATOM 1089 CG LEU A 941 50.700 50.500 31.161 1.00 20.00 ATOM 1090 CD1 LEU A 941 50.187 51.653 31.924 1.00 20.00 ATOM 1091 CD2 LEU A 941 50.187 51.653 31.924 1.00 20.00 ATOM 1093 N LEU A 942 54.571 48.720 32.848 1.00 20.00 ATOM 1094 CA LEU A 942 55.882 48.863 33.431 1.00 20.00 ATOM 1095 C LEU A 942 56.822 48.204 32.440 1.00 20.00 ATOM 1095 C LEU A 942 55.987 48.583 32.283 1.00 20.00 ATOM 1096 O LEU A 942 55.955 48.147 34.756 1.00 20.00 ATOM 1097 CB LEU A 942 54.731 48.399 35.609 1.00 20.00 ATOM 1099 CD1 LEU A 942 54.907 47.676 36.943 1.00 20.00 ATOM 1090 CD1 LEU A 942 54.526 49.936 35.793 1.00 20.00 ATOM 1100 CD2 LEU A 942 54.526 49.936 35.793 1.00 20.00 ATOM 1103 CA HIS A 943 56.309 47.201 31.761 1.00 20.00 ATOM 1103 CA HIS A 943 56.309 47.201 31.761 1.00 20.00 ATOM 1103 CA HIS A 943 56.309 47.201 31.761 1.00 20.00 ATOM 1104 C HIS A 943 57.754 47.596 29.894 1.00 20.00 ATOM 1105 CO HIS A 943 56.309 47.781 29.936 1.00 20.00 ATOM 1105 CO HIS A 943 56.309 47.781 29.936 1.00 20.00 ATOM 1106 CB HIS A 943 56.309 47.781 29.936 1.00 20.00 ATOM 1105 CO HIS A 943 56.309 47.781 29.936 1.00 20.00 ATOM 1106 CB HIS A 943 56.309 47.781 29.936 1.00 20.00 ATOM 1106 CB HIS A 943 56.309 47.781 29.936 1.00 20.00 ATOM 1106 CB HIS A 943 56.841 41.994 30.350 1.00 20.00 ATOM 1106 CB HIS A 943 56.841 41.994 30.350 1.00 20.00 ATOM 1100 CD2 HIS A 943 56.881 42.427 31.670 1.00 20.00 ATOM 1100 CD2 HIS A 943 56.881 42.427 31.670 1.00 20.00 ATOM 1110 CE1 HIS A 943 56.881 42.427 31.670 1.00 20.00 ATOM 1115 N PHE A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1115 N PHE A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1115 N PHE A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1115 N PHE A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1115 N PHE A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1115 N PHE A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1116 CA PHE A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1116 CA PHE A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1115 N PHE				LEU	A	941				
ATOM 1088 CB LEU A 941 51.855 49.924 31.933 1.00 20.00 ATOM 1089 CG LEU A 941 50.700 50.500 31.161 1.00 20.00 ATOM 1090 CD1 LEU A 941 50.187 51.653 31.924 1.00 20.00 ATOM 1091 CD2 LEU A 941 51.139 50.904 29.785 1.00 20.00 ATOM 1093 N LEU A 942 54.571 48.720 32.848 1.00 20.00 ATOM 1094 CA LEU A 942 55.882 48.863 33.431 1.00 20.00 ATOM 1095 C LEU A 942 56.822 48.204 32.440 1.00 20.00 ATOM 1096 O LEU A 942 55.955 48.147 34.756 1.00 20.00 ATOM 1097 CB LEU A 942 55.955 48.147 34.756 1.00 20.00 ATOM 1099 CD1 LEU A 942 54.907 47.676 36.943 1.00 20.00 ATOM 1090 CD1 LEU A 942 54.907 47.676 36.943 1.00 20.00 ATOM 1100 CD2 LEU A 942 54.526 49.936 35.793 1.00 20.00 ATOM 1100 CD2 LEU A 943 56.309 47.201 31.761 1.00 20.00 ATOM 1103 CA HIS A 943 56.309 47.201 31.761 1.00 20.00 ATOM 1103 CA HIS A 943 57.754 47.596 29.894 1.00 20.00 ATOM 1100 CD LEU A 943 56.309 47.781 29.936 1.00 20.00 ATOM 1105 C HIS A 943 56.309 47.781 29.936 1.00 20.00 ATOM 1105 C HIS A 943 56.309 47.781 29.936 1.00 20.00 ATOM 1105 C HIS A 943 56.309 47.781 29.936 1.00 20.00 ATOM 1105 C HIS A 943 56.309 47.781 29.936 1.00 20.00 ATOM 1105 C HIS A 943 56.309 47.781 29.936 1.00 20.00 ATOM 1105 C HIS A 943 56.309 47.781 29.936 1.00 20.00 ATOM 1105 C HIS A 943 56.309 47.781 29.936 1.00 20.00 ATOM 1106 CB HIS A 943 56.549 44.159 30.350 1.00 20.00 ATOM 1106 CB HIS A 943 56.549 44.159 30.350 1.00 20.00 ATOM 1100 CD2 LIEU A 942 56.881 42.427 31.670 1.00 20.00 ATOM 1100 CD2 HIS A 943 56.634 43.054 29.582 1.00 20.00 ATOM 1100 CD2 HIS A 943 56.881 42.427 31.670 1.00 20.00 ATOM 1110 CE1 HIS A 943 56.881 42.427 31.670 1.00 20.00 ATOM 1115 N PHE A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1115 N PHE A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1115 N PHE A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1115 N PHE A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1115 N PHE A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1115 N PHE A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1116 CA PHE A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1115 N PHE A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1115 N PHE A			C						31.744	
ATOM 1089 CG LEU A 941 50.700 50.500 31.161 1.00 20.00 ATOM 1090 CD1 LEU A 941 50.187 51.653 31.924 1.00 20.00 ATOM 1091 CD2 LEU A 941 51.139 50.904 29.785 1.00 20.00 ATOM 1093 N LEU A 942 54.571 48.720 32.848 1.00 20.00 ATOM 1094 CA LEU A 942 55.882 48.863 33.431 1.00 20.00 ATOM 1095 C LEU A 942 56.822 48.863 33.431 1.00 20.00 ATOM 1096 O LEU A 942 57.987 48.583 32.283 1.00 20.00 ATOM 1097 CB LEU A 942 55.955 48.147 34.756 1.00 20.00 ATOM 1099 CD1 LEU A 942 55.955 48.147 34.756 1.00 20.00 ATOM 1099 CD1 LEU A 942 54.731 48.399 35.609 1.00 20.00 ATOM 1100 CD2 LEU A 942 54.731 48.399 35.609 1.00 20.00 ATOM 1100 CD2 LEU A 942 54.526 49.936 35.793 1.00 20.00 ATOM 1100 CD2 LEU A 943 56.309 47.201 31.761 1.00 20.00 ATOM 1103 CA HIS A 943 56.309 47.201 31.761 1.00 20.00 ATOM 1105 O HIS A 943 57.754 47.596 29.894 1.00 20.00 ATOM 1106 CB HIS A 943 58.969 47.781 29.936 1.00 20.00 ATOM 1106 CB HIS A 943 56.302 45.586 29.997 1.00 20.00 ATOM 1106 CB HIS A 943 56.302 45.586 29.997 1.00 20.00 ATOM 1108 ND1 HIS A 943 56.302 45.586 29.997 1.00 20.00 ATOM 1108 ND1 HIS A 943 56.302 45.586 29.997 1.00 20.00 ATOM 1108 ND1 HIS A 943 56.302 45.586 29.997 1.00 20.00 ATOM 1108 ND1 HIS A 943 56.634 43.054 29.582 1.00 20.00 ATOM 1108 ND1 HIS A 943 56.634 43.054 29.582 1.00 20.00 ATOM 1100 CD2 HIS A 943 56.841 41.994 30.427 1.00 20.00 ATOM 1115 N PHE A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1115 N PHE A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1115 N PHE A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1115 N PHE A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1115 N PHE A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1115 N PHE A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1115 N PHE A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1115 N PHE A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1115 N PHE A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1115 N PHE A 944 56.929 48.366 50.354 28.831 1.00 20.00			0						31.231	
ATOM 1090 CD1 LEU A 941 50.187 51.653 31.924 1.00 20.00 ATOM 1091 CD2 LEU A 941 51.139 50.904 29.785 1.00 20.00 ATOM 1093 N LEU A 942 54.571 48.720 32.848 1.00 20.00 ATOM 1094 CA LEU A 942 55.882 48.863 33.431 1.00 20.00 ATOM 1095 C LEU A 942 56.822 48.204 32.440 1.00 20.00 ATOM 1096 O LEU A 942 57.987 48.583 32.283 1.00 20.00 ATOM 1097 CB LEU A 942 55.955 48.147 34.756 1.00 20.00 ATOM 1098 CG LEU A 942 54.731 48.399 35.609 1.00 20.00 ATOM 1099 CD1 LEU A 942 54.731 48.399 35.609 1.00 20.00 ATOM 1100 CD2 LEU A 942 54.907 47.676 36.943 1.00 20.00 ATOM 1100 CD2 LEU A 942 54.526 49.936 35.793 1.00 20.00 ATOM 1102 N, HIS A 943 56.309 47.201 31.761 1.00 20.00 ATOM 1103 CA HIS A 943 57.127 46.548 30.800 1.00 20.00 ATOM 1104 C HIS A 943 57.754 47.596 29.894 1.00 20.00 ATOM 1105 O HIS A 943 56.302 45.586 29.997 1.00 20.00 ATOM 1106 CB HIS A 943 56.302 45.586 29.997 1.00 20.00 ATOM 1107 CG HIS A 943 56.302 45.586 29.997 1.00 20.00 ATOM 1107 CG HIS A 943 56.549 44.159 30.350 1.00 20.00 ATOM 1108 ND1 HIS A 943 56.549 44.159 30.350 1.00 20.00 ATOM 1107 CG HIS A 943 56.549 44.159 30.350 1.00 20.00 ATOM 1107 CG HIS A 943 56.549 44.159 30.350 1.00 20.00 ATOM 1107 CE1 HIS A 943 56.549 44.159 30.350 1.00 20.00 ATOM 1107 CE1 HIS A 943 56.634 43.054 29.582 1.00 20.00 ATOM 1107 CE1 HIS A 943 56.841 41.994 30.427 1.00 20.00 ATOM 1110 CE1 HIS A 943 56.841 41.994 30.427 1.00 20.00 ATOM 1111 NE2 HIS A 943 56.841 41.994 30.427 1.00 20.00 ATOM 1115 N PHE A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1115 N PHE A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1116 CA PHE A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1116 CA PHE A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1111 NE2 HIS A 943 56.841 41.994 30.427 1.00 20.00 ATOM 1116 CA PHE A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1111 NE2 HIS A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1111 NE2 HIS A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1111 NE2 HIS A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1111 NE2 HIS A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1111 NE2 HIS A 944 56.929 48.278 29.084 1.00 20.00 A			CB				51.855	49.924	31.933	1.00 20.00
ATOM 1091 CD2 LEU A 941 51.139 50.904 29.785 1.00 20.00 ATOM 1093 N LEU A 942 54.571 48.720 32.848 1.00 20.00 ATOM 1094 CA LEU A 942 55.882 48.863 33.431 1.00 20.00 ATOM 1095 C LEU A 942 56.822 48.204 32.440 1.00 20.00 ATOM 1096 O LEU A 942 57.987 48.583 32.283 1.00 20.00 ATOM 1097 CB LEU A 942 55.955 48.147 34.756 1.00 20.00 ATOM 1099 CG LEU A 942 54.731 48.399 35.609 1.00 20.00 ATOM 1099 CD1 LEU A 942 54.907 47.676 36.943 1.00 20.00 ATOM 1100 CD2 LEU A 942 54.526 49.936 35.793 1.00 20.00 ATOM 1102 N, HIS A 943 56.309 47.201 31.761 1.00 20.00 ATOM 1103 CA HIS A 943 57.127 46.548 30.800 1.00 20.00 ATOM 1104 C HIS A 943 57.754 47.596 29.894 1.00 20.00 ATOM 1105 O HIS A 943 56.309 47.781 29.936 1.00 20.00 ATOM 1106 CB HIS A 943 56.302 45.586 29.997 1.00 20.00 ATOM 1107 CG HIS A 943 56.549 44.159 30.350 1.00 20.00 ATOM 1108 ND1 HIS A 943 56.549 44.159 30.350 1.00 20.00 ATOM 1108 ND1 HIS A 943 56.549 44.159 30.350 1.00 20.00 ATOM 1100 CD2 HIS A 943 56.549 44.159 30.350 1.00 20.00 ATOM 1107 CG HIS A 943 56.549 44.159 30.350 1.00 20.00 ATOM 1107 CG HIS A 943 56.549 44.159 30.350 1.00 20.00 ATOM 1107 CG HIS A 943 56.549 44.159 30.350 1.00 20.00 ATOM 1107 CG HIS A 943 56.549 44.159 30.350 1.00 20.00 ATOM 1107 CE1 HIS A 943 56.634 43.054 29.582 1.00 20.00 ATOM 1110 CE1 HIS A 943 56.841 41.994 30.427 1.00 20.00 ATOM 1111 NE2 HIS A 943 56.841 41.994 30.427 1.00 20.00 ATOM 1115 N PHE A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1115 N PHE A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1116 CA PHE A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1116 CA PHE A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1116 CA PHE A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1111 NE2 HIS A 943 56.841 41.994 30.427 1.00 20.00 ATOM 1116 CA PHE A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1111 NE2 HIS A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1111 NE2 HIS A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1111 NE2 HIS A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1111 NE2 HIS A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1111 NE2 HIS A 944 56.929 48.278 29.084 1.00 20.00 ATO			CG	LEU	Α	941	50.700	50.500	31.161	1.00 20.00
ATOM 1093 N LEU A 942 54.571 48.720 32.848 1.00 20.00 ATOM 1094 CA LEU A 942 55.882 48.863 33.431 1.00 20.00 ATOM 1095 C LEU A 942 56.822 48.204 32.440 1.00 20.00 ATOM 1096 O LEU A 942 57.987 48.583 32.283 1.00 20.00 ATOM 1097 CB LEU A 942 55.955 48.147 34.756 1.00 20.00 ATOM 1098 CG LEU A 942 54.731 48.399 35.609 1.00 20.00 ATOM 1099 CD1 LEU A 942 54.731 48.399 35.609 1.00 20.00 ATOM 1000 CD2 LEU A 942 54.526 49.936 35.793 1.00 20.00 ATOM 1100 CD2 LEU A 942 54.526 49.936 35.793 1.00 20.00 ATOM 1102 N, HIS A 943 56.309 47.201 31.761 1.00 20.00 ATOM 1103 CA HIS A 943 57.127 46.548 30.800 1.00 20.00 ATOM 1104 C HIS A 943 57.754 47.596 29.894 1.00 20.00 ATOM 1105 O HIS A 943 56.302 45.586 29.997 1.00 20.00 ATOM 1106 CB HIS A 943 56.302 45.586 29.997 1.00 20.00 ATOM 1108 ND1 HIS A 943 56.549 44.159 30.350 1.00 20.00 ATOM 1108 ND1 HIS A 943 56.549 44.159 30.350 1.00 20.00 ATOM 1108 ND1 HIS A 943 56.549 44.159 30.350 1.00 20.00 ATOM 1108 ND1 HIS A 943 56.634 43.054 29.997 1.00 20.00 ATOM 1100 CD2 HIS A 943 56.634 43.054 29.582 1.00 20.00 ATOM 1100 CD2 HIS A 943 56.634 43.054 29.582 1.00 20.00 ATOM 1100 CD2 HIS A 943 56.634 43.054 29.582 1.00 20.00 ATOM 1100 CD2 HIS A 943 56.634 43.054 29.582 1.00 20.00 ATOM 1110 CD1 HIS A 943 56.881 42.427 31.670 1.00 20.00 ATOM 1111 NE2 HIS A 943 56.881 42.427 31.670 1.00 20.00 ATOM 1111 NE2 HIS A 943 56.881 42.427 31.670 1.00 20.00 ATOM 1115 N PHE A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1115 N PHE A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1116 CA PHE A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1116 CA PHE A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1116 CA PHE A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1116 CA PHE A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1117 C PHE A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1117 C PHE A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1111 NE2 HIS A 943 56.831 1.00 20.00 ATOM 1111 NE2 HIS A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1111 NE2 HIS A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1111 NE2 HIS A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1111 NE2 HI			CD1	LEU	A	941	50.187	51.653	31.924	1.00 20.00
ATOM 1094 CA LEU A 942 55.882 48.863 33.431 1.00 20.00 ATOM 1095 C LEU A 942 56.822 48.204 32.440 1.00 20.00 ATOM 1096 O LEU A 942 57.987 48.583 32.283 1.00 20.00 ATOM 1097 CB LEU A 942 55.955 48.147 34.756 1.00 20.00 ATOM 1098 CG LEU A 942 54.731 48.399 35.609 1.00 20.00 ATOM 1099 CD1 LEU A 942 54.731 48.399 35.609 1.00 20.00 ATOM 1100 CD2 LEU A 942 54.907 47.676 36.943 1.00 20.00 ATOM 1100 CD2 LEU A 942 54.526 49.936 35.793 1.00 20.00 ATOM 1102 N, HIS A 943 56.309 47.201 31.761 1.00 20.00 ATOM 1103 CA HIS A 943 57.127 46.548 30.800 1.00 20.00 ATOM 1104 C HIS A 943 57.754 47.596 29.894 1.00 20.00 ATOM 1105 O HIS A 943 58.969 47.781 29.936 1.00 20.00 ATOM 1106 CB HIS A 943 56.302 45.586 29.997 1.00 20.00 ATOM 1107 CG HIS A 943 56.302 45.586 29.997 1.00 20.00 ATOM 1108 ND1 HIS A 943 56.549 44.159 30.350 1.00 20.00 ATOM 1109 CD2 HIS A 943 56.634 44.159 30.350 1.00 20.00 ATOM 1100 CE1 HIS A 943 56.634 44.159 30.350 1.00 20.00 ATOM 1100 CE1 HIS A 943 56.634 43.054 29.582 1.00 20.00 ATOM 1100 CE1 HIS A 943 56.881 42.427 31.670 1.00 20.00 ATOM 1110 CE1 HIS A 943 56.881 42.427 31.670 1.00 20.00 ATOM 1111 NE2 HIS A 943 56.881 42.427 31.670 1.00 20.00 ATOM 1111 NE2 HIS A 943 56.881 42.427 31.670 1.00 20.00 ATOM 1115 N PHE A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1115 N PHE A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1116 CA PHE A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1116 CA PHE A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1116 CA PHE A 944 56.929 48.278 29.084 1.00 20.00		1091	CD2					50.904	29.785	1.00 20.00
ATOM 1095 C LEU A 942 56.822 48.204 32.440 1.00 20.00 ATOM 1096 O LEU A 942 57.987 48.583 32.283 1.00 20.00 ATOM 1097 CB LEU A 942 55.955 48.147 34.756 1.00 20.00 ATOM 1098 CG LEU A 942 54.731 48.399 35.609 1.00 20.00 ATOM 1099 CD1 LEU A 942 54.907 47.676 36.943 1.00 20.00 ATOM 1100 CD2 LEU A 942 54.526 49.936 35.793 1.00 20.00 ATOM 1102 N, HIS A 943 56.309 47.201 31.761 1.00 20.00 ATOM 1103 CA HIS A 943 57.127 46.548 30.800 1.00 20.00 ATOM 1104 C HIS A 943 57.754 47.596 29.894 1.00 20.00 ATOM 1105 O HIS A 943 57.754 47.596 29.894 1.00 20.00 ATOM 1106 CB HIS A 943 56.302 45.586 29.997 1.00 20.00 ATOM 1107 CG HIS A 943 56.302 45.586 29.997 1.00 20.00 ATOM 1108 ND1 HIS A 943 56.549 44.159 30.350 1.00 20.00 ATOM 1109 CD2 HIS A 943 56.549 44.159 30.350 1.00 20.00 ATOM 1100 CE1 HIS A 943 56.634 43.054 29.582 1.00 20.00 ATOM 1110 CE1 HIS A 943 56.881 42.427 31.670 1.00 20.00 ATOM 1111 NE2 HIS A 943 56.881 42.427 31.670 1.00 20.00 ATOM 1111 NE2 HIS A 943 56.881 42.427 31.670 1.00 20.00 ATOM 1111 NE2 HIS A 943 56.881 42.427 31.670 1.00 20.00 ATOM 1111 NE2 HIS A 943 56.881 42.427 31.670 1.00 20.00 ATOM 1115 N PHE A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1115 N PHE A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1116 CA PHE A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1116 CA PHE A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1116 CA PHE A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1116 CA PHE A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1116 CA PHE A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1116 CA PHE A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1116 CA PHE A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1116 CA PHE A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1116 CA PHE A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1116 CA PHE A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1117 C PHE A 944 56.929 48.278 29.084 1.00 20.00 20.00 ATOM 1117 C PHE A 944 56.929 48.278 29.084 1.00 20.00 20.00 ATOM 1117 C PHE A 944 56.929 48.278 29.084 1.00 20.00 20.00 ATOM 1117 C			N				54.571		32.848	
ATOM 1096 O LEU A 942 57.987 48.583 32.283 1.00 20.00 ATOM 1097 CB LEU A 942 55.955 48.147 34.756 1.00 20.00 ATOM 1098 CG LEU A 942 54.731 48.399 35.609 1.00 20.00 ATOM 1100 CD2 LEU A 942 54.907 47.676 36.943 1.00 20.00 ATOM 1100 CD2 LEU A 942 54.526 49.936 35.793 1.00 20.00 ATOM 1102 N, HIS A 943 56.309 47.201 31.761 1.00 20.00 ATOM 1103 CA HIS A 943 57.127 46.548 30.800 1.00 20.00 ATOM 1104 C HIS A 943 57.754 47.596 29.894 1.00 20.00 ATOM 1105 O HIS A 943 58.969 47.781 29.936 1.00 20.00 ATOM 1106 CB HIS A 943 56.302 45.586 29.997 1.00 20.00 ATOM 1107 CG HIS A 943 56.549 44.159 30.350 1.00 20.00 ATOM 1108 ND1 HIS A 943 56.549 44.159 30.350 1.00 20.00 ATOM 1109 CD2 HIS A 943 56.634 43.054 29.582 1.00 20.00 ATOM 1100 CE1 HIS A 943 56.634 43.054 29.582 1.00 20.00 ATOM 1110 CE1 HIS A 943 56.881 42.427 31.670 1.00 20.00 ATOM 1111 NE2 HIS A 943 56.881 42.427 31.670 1.00 20.00 ATOM 1111 NE2 HIS A 943 56.881 42.427 31.670 1.00 20.00 ATOM 1115 N PHE A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1115 N PHE A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1116 CA PHE A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1116 CA PHE A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1116 CA PHE A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1116 CA PHE A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1116 CA PHE A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1116 CA PHE A 944 56.929 48.278 29.084 1.00 20.00	ATOM	1094	CA	LEU	A	942	55.882	48.863	33.431	1.00 20.00
ATOM 1097 CB LEU A 942 55.955 48.147 34.756 1.00 20.00 ATOM 1098 CG LEU A 942 54.731 48.399 35.609 1.00 20.00 ATOM 1099 CD1 LEU A 942 54.907 47.676 36.943 1.00 20.00 ATOM 1100 CD2 LEU A 942 54.526 49.936 35.793 1.00 20.00 ATOM 1102 N, HIS A 943 56.309 47.201 31.761 1.00 20.00 ATOM 1103 CA HIS A 943 57.127 46.548 30.800 1.00 20.00 ATOM 1105 O HIS A 943 57.754 47.596 29.894 1.00 20.00 ATOM 1106 CB HIS A 943 56.302 45.586 29.997 1.00 20.00 ATOM 1107 CG HIS A 943 56.302 45.586 29.997 1.00 20.00 ATOM 1108 ND1 HIS A 943 56.549 44.159 30.350 1.00 20.00 ATOM 1108 ND1 HIS A 943 56.709 43.732 31.649 1.00 20.00 ATOM 1109 CD2 HIS A 943 56.634 43.054 29.582 1.00 20.00 ATOM 1100 CE1 HIS A 943 56.881 42.427 31.670 1.00 20.00 ATOM 1110 CE1 HIS A 943 56.881 42.427 31.670 1.00 20.00 ATOM 1111 NE2 HIS A 943 56.841 41.994 30.427 1.00 20.00 ATOM 1115 N PHE A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1116 CA PHE A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1116 CA PHE A 944 57.396 49.327 28.162 1.00 20.00 ATOM 1116 CA PHE A 944 57.396 49.327 28.162 1.00 20.00 ATOM 1116 CA PHE A 944 57.396 49.327 28.162 1.00 20.00 ATOM 1116 CA PHE A 944 57.396 49.327 28.162 1.00 20.00 ATOM 1117 C PHE A 944 57.396 49.327 28.162 1.00 20.00	ATOM		C	LEU	A	942	56.822	48.204		1.00 20.00
ATOM 1098 CG LEU A 942 54.731 48.399 35.609 1.00 20.00 ATOM 1099 CD1 LEU A 942 54.907 47.676 36.943 1.00 20.00 ATOM 1100 CD2 LEU A 942 54.526 49.936 35.793 1.00 20.00 ATOM 1102 N, HIS A 943 56.309 47.201 31.761 1.00 20.00 ATOM 1103 CA HIS A 943 57.127 46.548 30.800 1.00 20.00 ATOM 1105 O HIS A 943 57.754 47.596 29.894 1.00 20.00 ATOM 1106 CB HIS A 943 56.302 45.586 29.997 1.00 20.00 ATOM 1107 CG HIS A 943 56.549 44.159 30.350 1.00 20.00 ATOM 1108 ND1 HIS A 943 56.709 43.732 31.649 1.00 20.00 ATOM 1109 CD2 HIS A 943 56.634 43.054 29.582 1.00 20.00 ATOM 1100 CE1 HIS A 943 56.881 42.427 31.670 1.00 20.00 ATOM 1110 CE1 HIS A 943 56.881 42.427 31.670 1.00 20.00 ATOM 1111 NE2 HIS A 943 56.881 42.427 31.670 1.00 20.00 ATOM 1115 N PHE A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1115 N PHE A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1116 CA PHE A 944 57.396 49.327 28.162 1.00 20.00 ATOM 1116 CA PHE A 944 57.396 49.327 28.162 1.00 20.00 ATOM 1117 C PHE A 944 58.366 50.354 28.831 1.00 20.00		1096	0					48.583	32.283	1.00 20.00
ATOM 1099 CD1 LEU A 942 54.907 47.676 36.943 1.00 20.00 ATOM 1100 CD2 LEU A 942 54.526 49.936 35.793 1.00 20.00 ATOM 1102 N, HIS A 943 56.309 47.201 31.761 1.00 20.00 ATOM 1103 CA HIS A 943 57.127 46.548 30.800 1.00 20.00 ATOM 1104 C HIS A 943 57.754 47.596 29.894 1.00 20.00 ATOM 1105 O HIS A 943 58.969 47.781 29.936 1.00 20.00 ATOM 1106 CB HIS A 943 56.302 45.586 29.997 1.00 20.00 ATOM 1107 CG HIS A 943 56.549 44.159 30.350 1.00 20.00 ATOM 1108 ND1 HIS A 943 56.549 44.159 30.350 1.00 20.00 ATOM 1109 CD2 HIS A 943 56.709 43.732 31.649 1.00 20.00 ATOM 1100 CE1 HIS A 943 56.634 43.054 29.582 1.00 20.00 ATOM 1110 CE1 HIS A 943 56.881 42.427 31.670 1.00 20.00 ATOM 1111 NE2 HIS A 943 56.881 42.427 31.670 1.00 20.00 ATOM 1115 N PHE A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1116 CA PHE A 944 57.396 49.327 28.162 1.00 20.00 ATOM 1116 CA PHE A 944 57.396 49.327 28.162 1.00 20.00 ATOM 1117 C PHE A 944 58.366 50.354 28.831 1.00 20.00	ATOM		CB	LEU	A	942	55.955	48.147	34.756	1.00 20.00
ATOM 1100 CD2 LEU A 942 54.526 49.936 35.793 1.00 20.00 ATOM 1102 N, HIS A 943 56.309 47.201 31.761 1.00 20.00 ATOM 1103 CA HIS A 943 57.127 46.548 30.800 1.00 20.00 ATOM 1104 C HIS A 943 57.754 47.596 29.894 1.00 20.00 ATOM 1105 O HIS A 943 58.969 47.781 29.936 1.00 20.00 ATOM 1106 CB HIS A 943 56.302 45.586 29.997 1.00 20.00 ATOM 1107 CG HIS A 943 56.549 44.159 30.350 1.00 20.00 ATOM 1108 ND1 HIS A 943 56.709 43.732 31.649 1.00 20.00 ATOM 1109 CD2 HIS A 943 56.634 43.054 29.582 1.00 20.00 ATOM 1110 CE1 HIS A 943 56.881 42.427 31.670 1.00 20.00 ATOM 1111 NE2 HIS A 943 56.881 42.427 31.670 1.00 20.00 ATOM 1115 N PHE A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1116 CA PHE A 944 57.396 49.327 28.162 1.00 20.00 ATOM 1116 CA PHE A 944 57.396 49.327 28.162 1.00 20.00 ATOM 1117 C PHE A 944 58.366 50.354 28.831 1.00 20.00	ATOM	1098					54.731	48.399	35.609	-
ATOM 1102 N, HIS A 943 56.309 47.201 31.761 1.00 20.00 ATOM 1103 CA HIS A 943 57.127 46.548 30.800 1.00 20.00 ATOM 1104 C HIS A 943 57.754 47.596 29.894 1.00 20.00 ATOM 1105 O HIS A 943 58.969 47.781 29.936 1.00 20.00 ATOM 1106 CB HIS A 943 56.302 45.586 29.997 1.00 20.00 ATOM 1107 CG HIS A 943 56.549 44.159 30.350 1.00 20.00 ATOM 1108 ND1 HIS A 943 56.709 43.732 31.649 1.00 20.00 ATOM 1109 CD2 HIS A 943 56.634 43.054 29.582 1.00 20.00 ATOM 1110 CE1 HIS A 943 56.881 42.427 31.670 1.00 20.00 ATOM 1111 NE2 HIS A 943 56.881 42.427 31.670 1.00 20.00 ATOM 1115 N PHE A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1116 CA PHE A 944 57.396 49.327 28.162 1.00 20.00 ATOM 1117 C PHE A 944 58.366 50.354 28.831 1.00 20.00		1099	CD1	LEU	A	942	54.907	47.676		1.00 20.00
ATOM 1103 CA HIS A 943 57.127 46.548 30.800 1.00 20.00 ATOM 1104 C HIS A 943 57.754 47.596 29.894 1.00 20.00 ATOM 1105 O HIS A 943 58.969 47.781 29.936 1.00 20.00 ATOM 1106 CB HIS A 943 56.302 45.586 29.997 1.00 20.00 ATOM 1107 CG HIS A 943 56.549 44.159 30.350 1.00 20.00 ATOM 1108 ND1 HIS A 943 56.709 43.732 31.649 1.00 20.00 ATOM 1109 CD2 HIS A 943 56.634 43.054 29.582 1.00 20.00 ATOM 1110 CE1 HIS A 943 56.881 42.427 31.670 1.00 20.00 ATOM 1111 NE2 HIS A 943 56.881 42.427 31.670 1.00 20.00 ATOM 1115 N PHE A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1116 CA PHE A 944 57.396 49.327 28.162 1.00 20.00 ATOM 1117 C PHE A 944 58.366 50.354 28.831 1.00 20.00		1100		LEU	Α	942	54.526	49.936	35.793	
ATOM 1104 C HIS A 943 57.754 47.596 29.894 1.00 20.00 ATOM 1105 O HIS A 943 56.302 45.586 29.997 1.00 20.00 ATOM 1107 CG HIS A 943 56.549 44.159 30.350 1.00 20.00 ATOM 1108 ND1 HIS A 943 56.709 43.732 31.649 1.00 20.00 ATOM 1109 CD2 HIS A 943 56.634 43.054 29.582 1.00 20.00 ATOM 1110 CE1 HIS A 943 56.881 42.427 31.670 1.00 20.00 ATOM 1111 NE2 HIS A 943 56.881 42.427 31.670 1.00 20.00 ATOM 1115 N PHE A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1116 CA PHE A 944 57.396 49.327 28.162 1.00 20.00 ATOM 1117 C PHE A 944 58.366 50.354 28.831 1.00 20.00	MOTA	1102	N,	HIS	A	943	56.309	47.201	31.761	1.00 20.00
ATOM 1105 O HIS A 943 58.969 47.781 29.936 1.00 20.00 ATOM 1106 CB HIS A 943 56.302 45.586 29.997 1.00 20.00 ATOM 1107 CG HIS A 943 56.549 44.159 30.350 1.00 20.00 ATOM 1108 ND1 HIS A 943 56.709 43.732 31.649 1.00 20.00 ATOM 1109 CD2 HIS A 943 56.634 43.054 29.582 1.00 20.00 ATOM 1110 CE1 HIS A 943 56.881 42.427 31.670 1.00 20.00 ATOM 1111 NE2 HIS A 943 56.881 42.427 31.670 1.00 20.00 ATOM 1115 N PHE A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1116 CA PHE A 944 57.396 49.327 28.162 1.00 20.00 ATOM 1117 C PHE A 944 58.366 50.354 28.831 1.00 20.00	MOTA	1103	CA	HIS	A	943	57.127	46.548	30.800	1.00 20.00
ATOM 1106 CB HIS A 943 56.302 45.586 29.997 1.00 20.00 ATOM 1107 CG HIS A 943 56.549 44.159 30.350 1.00 20.00 ATOM 1108 ND1 HIS A 943 56.709 43.732 31.649 1.00 20.00 ATOM 1109 CD2 HIS A 943 56.634 43.054 29.582 1.00 20.00 ATOM 1110 CE1 HIS A 943 56.881 42.427 31.670 1.00 20.00 ATOM 1111 NE2 HIS A 943 56.881 42.427 31.670 1.00 20.00 ATOM 1115 N PHE A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1116 CA PHE A 944 57.396 49.327 28.162 1.00 20.00 ATOM 1117 C PHE A 944 58.366 50.354 28.831 1.00 20.00	ATOM	1104	C	HIS	A	943	57.754	47.596	29.894	1.00 20.00
ATOM 1107 CG HIS A 943 56.549 44.159 30.350 1.00 20.00 ATOM 1108 ND1 HIS A 943 56.709 43.732 31.649 1.00 20.00 ATOM 1109 CD2 HIS A 943 56.634 43.054 29.582 1.00 20.00 ATOM 1110 CE1 HIS A 943 56.881 42.427 31.670 1.00 20.00 ATOM 1111 NE2 HIS A 943 56.841 41.994 30.427 1.00 20.00 ATOM 1115 N PHE A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1116 CA PHE A 944 57.396 49.327 28.162 1.00 20.00 ATOM 1117 C PHE A 944 58.366 50.354 28.831 1.00 20.00	MOTA	1105	0	HIS	Δ	943	58.969	47.781	29.936	1.00 20.00
ATOM 1108 ND1 HIS A 943 56.709 43.732 31.649 1.00 20.00 ATOM 1109 CD2 HIS A 943 56.634 43.054 29.582 1.00 20.00 ATOM 1110 CE1 HIS A 943 56.881 42.427 31.670 1.00 20.00 ATOM 1111 NE2 HIS A 943 56.841 41.994 30.427 1.00 20.00 ATOM 1115 N PHE A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1116 CA PHE A 944 57.396 49.327 28.162 1.00 20.00 ATOM 1117 C PHE A 944 58.366 50.354 28.831 1.00 20.00	MOTA	1106	CB	HIS	Α	943	56.302	45.586	29.997	1.00 20.00
ATOM 1109 CD2 HIS A 943 56.634 43.054 29.582 1.00 20.00 ATOM 1110 CE1 HIS A 943 56.881 42.427 31.670 1.00 20.00 ATOM 1111 NE2 HIS A 943 56.841 41.994 30.427 1.00 20.00 ATOM 1115 N PHE A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1116 CA PHE A 944 57.396 49.327 28.162 1.00 20.00 ATOM 1117 C PHE A 944 58.366 50.354 28.831 1.00 20.00	MOTA	1107	CG	HIS	A	943	56.549	44.159	30,350	1.00 20.00
ATOM 1110 CE1 HIS A 943 56.881 42.427 31.670 1.00 20.00 ATOM 1111 NE2 HIS A 943 56.841 41.994 30.427 1.00 20.00 ATOM 1115 N PHE A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1116 CA PHE A 944 57.396 49.327 28.162 1.00 20.00 ATOM 1117 C PHE A 944 58.366 50.354 28.831 1.00 20.00	MOTA	1108	ND1	HIS	A	943	56.709	43.732	31.649	1.00 20.00
ATOM 1111 NE2 HIS A 943 56.841 41.994 30.427 1.00 20.00 ATOM 1115 N PHE A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1116 CA PHE A 944 57.396 49.327 28.162 1.00 20.00 ATOM 1117 C PHE A 944 58.366 50.354 28.831 1.00 20.00	MOTA	1109	CD2	HIS	A	943	56.634	43.054	29.582	1.00 20.00
ATOM 1115 N PHE A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1116 CA PHE A 944 57.396 49.327 28.162 1.00 20.00 ATOM 1117 C PHE A 944 58.366 50.354 28.831 1.00 20.00	MOTA	1110	CE1	HIS	A	943	56.881	42.427	31.670	1.00 20.00
ATOM 1115 N PHE A 944 56.929 48.278 29.084 1.00 20.00 ATOM 1116 CA PHE A 944 57.396 49.327 28.162 1.00 20.00 ATOM 1117 C PHE A 944 58.366 50.354 28.831 1.00 20.00	ATOM	1111	NE2	HIS	A	943	56.841	41.994	30.427	1.00 20.00
ATOM 1116 CA PHE A 944 57.396 49.327 28.162 1.00 20.00 ATOM 1117 C PHE A 944 58.366 50.354 28.831 1.00 20.00	MOTA		N·	PHE	A	944	56.929	48.278	29.084	
ATOM 1117 C PHE A 944 58.366 50.354 28.831 1.00 20.00	MOTA	1116	CA	PHE	Α	944				1.00 20.00
			C	PHE	A	944	58.366	50.354	28.831	
	MOTA	1118	0	PHE	A	944	59.368	50.775	28.249	1.00 20.00

ATOM	1119	CE	B PHE A 944	56.205	50.071	27.619	1.00 20.00
ATOM	1120	Co	PHE A 944	55.484			
ATOM	1121	. CI)1 PHE A 944	54.116			
ATOM	1122			56.130			
ATOM	1123			53.432			
ATOM	1124						
				55.433			· · · · · · · · · · · · · · · · · · ·
ATOM	1125			54.096	48.393		
ATOM	1127		ALA A 945	58.055	50.749	30.057	1.00 20.00
MOTA	1128			58,919	51.639	30.792	1.00 20.00
MOTA	1129		ALA A 945	60.323	51.010	31.013	1.00 20.00
MOTA	1130	0	ALA A 945	61.349	51.690	30.906	1.00 20.00
ATOM	1131	CB	ALA A 945	58.292	51.974	32.101	1.00 20.00
ATOM	1133	N	ALA A 946	60.373	49.710	31.297	1.00 20.00
ATOM	1134	CA	ALA A 946	61.650	49.043	31.547	1.00 20.00
ATOM	1135	C	ALA A 946	62.466	48.605	30.330	1.00 20.00
ATOM	1136	ō	ALA A 946	63.646			
ATOM	1137	CB	ALA A 946		48.331	30.434	1.00 20.00
MOTA	1139			61.418	47.872	32.429	1.00 20.00
		N	ASP A 947	61.823	48.486	29.188	1.00 20.00
ATOM	1140	CA	ASP A 947	62.532	48.106	27.998	1.00 20.00
ATOM	1141	C	ASP A 947	63.351	49.335	27.765	1.00 20.00
ATOM	1142	0	ASP A 947	64.564	49.273	27.560	1.00 20.00
ATOM	1143	CB	ASP A 947	61.560	47.930	26.849	1.00 20.00
ATOM	1144	CG	ASP A 947	61.242	46.473	26.549	1.00 20.00
ATOM	1145	OD:	l ASP A 947	61.770	45.561	27.247	1.00 20.00
ATOM	1146	OD2	2 ASP A 947	60.447	46.255	25.595	1.00 20.00
ATOM	1148	N	VAL A 948	62.640	50.465	27.811	1.00 20.00
ATOM	1149	CA	VAL A 948	63.203			
ATOM	1150	C	VAL A 948		51.808	27.624	1.00 20.00
				64.337	52.099	28.598	1.00 20.00
ATOM	1151	0	VAL A 948	65.360	52.539	28.177	1.00 20.00
ATOM	1152	CB	VAL A 948	62.108	52.917	27.776	1.00 20.00
ATOM	1153	CG1		62.712	54.286	27.666	1.00 20.00
ATOM	1154	CG2	VAL A 948	61.121	52.784	26.722	1.00 20.00
ATOM	1156	N	ALA A 949	64.166	51.850	29.886	1.00 20.00
ATOM	1157	CA	ALA A 949	65.243	52.135	30.812	1.00 20.00
ATOM	1158	C	ALA A 949	66.449	51.321	30.460	1.00 20.00
ATOM	1159	0	ALA A 949	67.578	51.738	30.669	1.00 20.00
ATOM	1160	CB	ALA A 949	64.850	51.822	32.209	1.00 20.00
ATOM	1162	N	ARG A 950	66.212			
ATOM	1163	CA	ARG A 950		50.134	29.928	1.00 20.00
ATOM				67.293	49.254	29.578	1.00 20.00
	1164	C	ARG A 950	68.005	49.853	28.406	1.00 20.00
ATOM.	1165	0	ARG A 950	69.110	50.330	28.534	1.00 20.00
	1166	CB	ARG A 950	66.762	47.872	29.240	1.00 20.00
MOTA	1167	CG	ARG A 950	67.029	46.827	30.351	1.00 20.00
ATOM	1168	CD	ARG A 950	67.033	45.384	29.809	1.00 20.00
ATOM	1169	NE	ARG A 950	65.891	45.157	28.900	1.00 20.00
ATOM	1170	CZ	ARG A 950	64.646	44.807	29.260	1.00 20.00
ATOM	1171	NH1	ARG A 950	64.301	44.610	30.522	1.00 20.00
ATOM	1172		ARG A 950	63.726	44.693	28.323	1.00 20.00
ATOM	1179	N	GLY A 951				
ATOM	1180	CA	GLY A 951	67.390	49.844	27.248	1.00 20.00
ATOM				68.105	50.427	26.146	1.00 20.00
	1181	C	GLY A 951	68.769	51.722	26.564	1.00 20.00
ATOM	1182	0	GLY A 951	69.885	52.024	26.163	1.00 20.00
ATOM	1184	N	MET A 952	68.080	52.500	27.386	1.00 20.00
ATOM	1185	CA	MET A 952	68.605	53.787	27.807	1.00 20.00
ATOM	1186	C	MET A 952	69.952	53.633	28.437	1.00 20.00
ATOM	1187	0	MET A 952	70.949	53.969	27.845	1.00 20.00
ATOM	1188	CB	MET A 952	67.659	54.492	28.797	1.00 20.00
						,	
				FIG.	4Q		
				T. T. C.	ュベ		
							n,
							•
						•	

ATOM	1189	CG	MET	A	952		67.289	55.894	28.400	1.00 20.00
ATOM	1190	SD	MET	Ą	952		67.360	56.078	26.632	1.00 20.00
MOTA	1191	CE	MET	Α	952		68.656	57.374	26.554	1.00 20.00
ATOM	1193	N	ASP	Α	953		69.903	53.096	29.648	1.00 20.00
ATOM	1194	CA	ASP	Α	953		70.999	52.819	30.539	1.00 20.00
MOTA	1195	C			953		72.126	52.077	29.948	1.00 20.00
ATOM	1196	0	ASP	Α	953		73.077	51.814	30.608	1.00 20.00
ATOM	1197	СВ			953		70.496	52.036	31.733	1.00 20.00
ATOM	1198	CG			953		71.538	51.117	32.295	1.00 20.00
ATOM	1199		ASP				72.241	51.480	33.245	1.00 20.00
ATOM	1200	OD2	ASP				71.672	50.004	31.785	1.00 20.00
ATOM	1200	N	TYR				72.025			
	1202	CA.	TYR		-	•		51.743 51.020	28.692	1.00 20.00
ATOM			TYR				73.060		28.034	1.00 20.00
ATOM	1204	C					73.930	52.011	27.324	1.00 20.00
ATOM	1205	0	TYR				75.135	51.833	27.254	1.00 20.00
MOTA	1206	CB	TYR				72.416	50.047	27.070	1.00 20.00
ATOM	1207	CG	TYR				73.330	49.432	26.068	1.00 20.00
MOTA	1208	CD1	TYR				74.294	48.485	26.442	1.00 20.00
ATOM	1209	CD2	TYR				73.181	49.719	24.734	1.00 20.00
ATOM	1210	CE1	TYR	A	954		75.071	47.839	25.483	1.00 20.00
MOTA	1211	CE2	TYR	A	954		73.947	49.082	23.779	1.00 20.00
ATÓM	1212	CZ	TYR	A	954		74.883	48.136	24.153	1.00 20.00
ATOM	1213	OH	TYR	Α	954		75.525	47.442	23.152	1.00 20.00
ATOM	1216	N	LEU	A	955		73.286	53.052	26.786	1.00 20.00
ATOM	1217	CA	LEU .	A	955		73.908	54.184	26.069	1.00 20.00
ATOM	1218	C	LEU				74.356	55.110	27.176	1.00 20.00
ATOM	1219	Ō	LEU		-		75.441	55.609	27.207	1.00 20.00
ATOM	1220	CB	LEU .				72.863	54.943	25.265	1.00 20.00
ATOM	1221	CG	LEU .				72.005	54.277	24.181	1.00 20.00
ATOM	1222	CD1	LEU .				70.489	54.637	24.288	1.00 20.00
ATOM	1223	CD2	LEU .				72.573	54.751	22.838	1.00 20.00
ATOM	1225	N	SER .							1.00 20.00
							73.465	55.311	28.113	
ATOM	1226	CA	SER .				73.699	56.176	29.209	1.00 20.00
ATOM	1227	C	SER .				74.985	55.783	29.829	1.00 20.00
ATOM	1228	0	SER .				75.557	56.555	30.600	1.00 20.00
ATOM	1229	CB	SER .				72.534	56.068	30.172	1.00 20.00
ATOM	1230	OG	SER				72.960	56.102	31.513	1.00 20.00
ATOM	1233	N	GLN .	A	957		75.468	54.594	29.495	1.00 20.00
ATOM	1234	CA	GLN .	A	957		76.755	54.097	30.040	1.00 20.00
MOTA	1235	С	GLN .	A	957		77.824	54.054	28.959	1.00 20.00
ATOM	1236	0	GLN 3	A	957		78.985	54.213	29.208	1.00 20.00
MOTA	1237	CB	GLN :	A	957		76.591	52.703	30.617	1.00 20.00
ATOM	1238	ÇG	GLN .	A	957		75.563	52.626	31.692	1.00 20.00
MOTA	1239	ĆD	GLN I	A	957		76.088	51.882	32.875	1.00 20.00
ATOM	1240	OE1					77.083	52.314	33.492	1.00 20.00
ATOM	1241	NE2	GLN I	Ą	957		75.447	50.747	33.215	1.00 20.00
ATOM	1245	N	LYS :				77.396	53.827	27.747	1.00 20.00
ATOM	1246	CA	LYS I				78.273	53.813	26.622	1.00 20.00
ATOM	1247	C	LYS I				78.801	55.275	26.542	1.00 20.00
ATOM	1248	0	LYS A				79.643	55.627	25.704	1.00 20.00
ATOM	1249	CB	LYS I				77.427		25.704	1.00 20.00
								53.440		1.00 20.00
ATOM	1250	CG	LYS				78.110	52.552	24.355	
ATOM	1251	CD	LYS				78.715	51.303	25.011	1.00 20.00
ATOM	1252	CE	LYS A				77.845	50.099	24.743	1.00 20.00
MOTA	1253	NZ	LYS I				77.570	50.041	23.271	1.00 20.00
ATOM	1258	N	GLN I				78.268	56.108	27.438	1.00 20.00
MOTA	1259	CA	GLN I	A	959		78.526	57.551	27.543	1.00 20.00

1260 C GLN A 959 77.366 58.361 26.838 1.00 20.00 1261 O GLN A 959 76.848 59.327 27.401 1.00 20.00 1262 CB GLN A 959 79.901 57.893 26.973 1.00 20.00 1263 CG GLN A 959 80.490 59.183 27.492 1.00 20.00 1264 CD GLN A 959 80.934 59.114 28.944 1.00 20.00 1265 OE1 GLN A 959 81.840 58.313 29.295 1.00 20.00 1266 NE2 GLN A 959 80.332 59.979 29.811 1.00 20.00 1270 N PHE A 960 76.937 57.940 25.649 1.00 20.00 1271 CA PHE A 960 75.828 58.582 24.898 1.00 20.00 1272 C PHE A 960 74.667 59.365 25.618 1.00 20.00 1273 O PHE A 960 74.110 58.916 26.628 1.00 20.00 MOTA MOTA ATOM ATOM MOTA MOTA MOTA 1270 N PHE A 960 76.937 57.940 25.649 1.00 20.00 1271 CA PHE A 960 75.828 58.52 24.4898 1.00 20.00 1272 C PHE A 960 74.667 59.365 25.618 1.00 20.00 1273 O PHE A 960 74.110 58.916 26.628 1.00 20.00 1274 CB PHE A 960 75.189 57.528 23.985 1.00 20.00 1275 CG PHE A 960 76.070 57.067 22.851 1.00 20.00 1276 CD1 PHE A 960 76.570 55.766 22.818 1.00 20.00 1277 CD2 PHE A 960 76.570 55.766 22.818 1.00 20.00 1277 CD2 PHE A 960 76.367 57.901 21.792 1.00 20.00 1278 CE1 PHE A 960 77.349 55.308 21.743 1.00 20.00 1280 CZ PHE A 960 77.636 56.142 20.704 1.00 20.00 1282 N ILE A 961 74.308 60.532 25.068 1.00 20.00 1283 CA ILE A 961 73.212 61.377 25.623 1.00 20.00 1284 C ILE A 961 72.076 61.460 24.611 1.00 20.00 1285 O ILE A 961 73.631 62.828 23.434 1.00 20.00 1287 CG1 ILE A 961 73.631 62.828 23.434 1.00 20.00 1287 CG1 ILE A 961 73.631 62.832 25.988 1.00 20.00 1287 CG1 ILE A 961 73.631 62.832 25.988 1.00 20.00 1287 CG1 ILE A 961 73.631 62.832 25.988 1.00 20.00 1287 CG1 ILE A 961 73.631 62.832 25.988 1.00 20.00 1287 CG1 ILE A 961 73.531 63.162.832 25.988 1.00 20.00 1287 CG1 ILE A 961 73.631 62.832 25.988 1.00 20.00 1287 CG1 ILE A 961 75.935 63.855 26.373 1.00 20.00 1289 CD1 ILE A 961 75.935 63.855 26.373 1.00 20.00 1289 CD1 ILE A 961 75.935 63.855 26.373 1.00 20.00 1291 N HIS A 962 69.708 61.307 24.088 1.00 20.00 1292 CA HIS A 962 69.296 62.872 22.344 1.00 20.00 1294 O HIS A 962 69.296 62.872 22.344 1.00 20.00 1295 CB HIS A 962 66.589 58.290 22.528 1.00 20.00 1299 CE1 HIS A 962 66.589 58.290 22.528 1.00 20.00 1299 CE1 HIS A 962 66.589 58.290 22.528 1.00 20.00 1305 CA ARG A 963 66.653 64.636 23.125 1.00 20.00 1305 CA ARG A 963 66.653 64.636 23.125 1.00 20.00 1306 C ARG A 963 66.653 64.636 23.125 1.00 20.00 1310 CD ARG A 963 66.653 64.636 23.125 1.00 20.00 1310 CD ARG A 963 66.653 64.636 23.125 1.00 20.00 1310 CD ARG A 963 66.653 64.636 23.125 1.00 20.00 1311 NE ARG A 963 66.653 64.636 23.125 1.00 20.00 1311 NE ARG A 963 66.653 63.623 22.545 1.00 20.00 1312 CD ARG A 963 66.653 63.623 22.545 1.00 20.00 1312 CD ARG A 963 66.563 63.623 22. MOTA ATOM ATOM ATOM MOTA ATOM MOTA ATOM MOTA ATOM ATOM ATOM MOTA MOTA MOTA MOTA ATOM MOTA ATOM ATOM MOTA ATOM ATOM MOTA ATOM ATOM ATOM MOTA ATOM MOTA MOTA ATOM MOTA MOTA MOTA MOTA MOTA ATOM ATOM ATOM ATOM MOTA 1323 C ASN A 964 63.904 62.262 22.803 1.00 20.00 1324 O ASN A 964 64.890 63.763 21.054 1.00 20.00 1325 CB ASN A 964 64.890 63.763 21.054 1.00 20.00 1326 CG ASN A 964 63.647 63.940 20.206 1.00 20.00 1327 OD1 ASN A 964 62.565 64.079 20.780 1.00 20.00 1328 ND2 ASN A 964 63.769 63.939 18.866 1.00 20.00 1332 N LEU A 965 63.861 61.914 24.081 1.00 20.00 1333 CA LEU A 965 63.291 60.665 24.546 1.00 20.00 MOTA ATOM MOTA ATOM 1328 ND2 ASN A 964

MOTA

ATOM MOTA 1332 N

3.0014		_						
ATOM	1334	С		A 965	61.884	61.116	24.926	1.00 20.00
ATOM	1335	0		A 965	61.701	62.119	25.629	1.00 20.00
ATOM	1336	CB	LEU .	A 965	64.079	60.172	25.769	1.00 20.00
MOTA	1337	CG	LEU .	A 965	64.292	58.716	26.189	1.00 20.00
MOTA	1338	CD1	LEU .	A 965	64.689	57.802	25.040	1.00 20.00
ATOM	1339	CD2	LEU .	A 965	€5.320	58.728	27.27 <i>6</i>	1.00 20.00
MOTA	1341	N	ALA.	A 966	60.905	60.381	24.412	1.00 20.00
ATOM	1342	CA	ALA.	A 966	59.511	60.666	24.605	1.00 20.00
ATOM	1343	С	ALA	A 966	58.812	59.674	23.677	1.00 20.00
ATOM	1344	0		A 966	59.379	59.250	22.667	1.00 20.00
MOTA	1345	CB		966	59.244	62.056	24.189	1.00 20.00
ATOM	1347	N		A 967	57.581	59.320	24.014	1.00 20.00
ATOM	1348	CA		A 967	56.826	58.358	23.242	1.00 20.00
ATOM	1349	C		A 967	56.842			
ATOM	1350	0	ALA A		57.050	58.489	21.740	1.00 20.00
ATOM	1351	CB	ALA A		55.375	57.521	21.044	1.00 20.00
MOTA	1351	N	ARG A			58.306	23.721	1.00 20.00
					56.606	59.671	21.205	1.00 20.00
ATOM	1354	CA	ARG A		56.580	59.697	19.759	1.00 20.00
MOTA	1355	C	ARG A		57.802	59.015	19.160	1.00 20.00
ATOM	1356	0	ARG A		57.751	58.532	18.041	1.00 20.00
ATOM	1357	CB	ARG A		56.455	61.123	19.226	1.00 20.00
ATOM	1358	CG	ARG A	968	57.264	62.162	19.987	1.00 20.00
MOTA	1359	CD	ARG A		57.684	63.354	19.087	1.00 20.00
ATOM	1360	NE	ARG A	968	58.467	64.376	19.784	1.00 20.00
ATOM	1361	CZ	ARG A	968	58.098	64.982	20.904	1.00 20.00
ATOM	1362	NHl	ARG A	968	56.937	64.698	21.492	1.00 20.00
ATOM	1363	NH2	ARG A	968	58.929	65.828	21.473	1.00 20.00
ATOM	1370	N	ASN A	969	58.881	58.913	19.931	1.00 20.00
ATOM	1371	CA	ASN A		60.122	58.388	19.383	1.00 20.00
ATOM	1372	C	ASN A		60.608	57.008	19.754	1.00 20.00
ATOM	1373	0	ASN A		61.716	56.647	19.413	1.00 20.00
ATOM	1374	CB	ASN A		61.232	59.407	19.630	1.00 20.00
ATOM	1375	CG	ASN A		60.873	60.787		*
ATOM	1376		ASN A				19.118	1.00 20.00
					60.733	61.724	19.892	1.00 20.00
ATOM	1377	ND2			60.702	60.910	17.802	1.00 20.00
ATOM	1381	N	ILE A		59.775	56.249	20.443	1.00 20.00
ATOM	1382	CA	ILE A		60.073	54.912	20.851	1.00 20.00
ATOM	1383	C	ILE A		59.153	54.057	20.034	1.00 20.00
ATOM	1384	0	ILE A		58.006	54.384	19.930	1.00 20.00
ATOM	1385	CB	ILE A		59.717	54.770	22.294	1.00 20.00
ATOM	1386	CG1	ILE A	970	60.699	55.565	23.110	1.00 20.00
ATOM	1387		ILE A		59.730	53.328	22.724	1.00 20.00
ATOM	1388	CDI	ILE A	970	60.800	55.095	24.515	1.00 20.00
MOTA	1390	N	LEU A	971	59.626	52.971	19.435	1.00 20.00
ATOM	1391	CA	LEU A	971	58.733	52.086	18.656	1.00 20.00
ATOM	1392	С	LEU A	971	58.290	50.891	19.444	1.00 20.00
ATOM	1393	0	LEU A	971	58.776	50.653	20.523	1.00 20.00
MOTA	1394	CB	LEU A	971		51.582	17.418	1.00 20.00
ATOM	1395		LEU A			52.837	16.785	1.00 20.00
ATOM	1396		LEU A			52.652	16.019	1.00 20.00
ATOM	1397		LEU A			53.290	15.909	1.00 20.00
ATOM	1399		VAL A		57.305	50.171	18.929	1.00 20.00
ATOM			VAL A					
						48.941	19.594	1.00 20.00
ATOM	1401		VAL A			47.883	18.541	1.00 20.00
ATOM	1402		VAL A			47.793	17.661	1.00 20.00
ATOM	1403		VAL A			48.932	20.043	1.00 20.00
ATOM	1404	CGI	VAL A	972	55.224	47.588	20.632	1.00 20.00

								01 107	1.00	20.00
MOTA	1405		VAL			55.264	50.012	21.107 18.614	_	20.00
ATOM	1407	N			973	58.127	47.106	17.614		20.00
ATOM	1408	CA	GLY			58.375	46.109	17.980	1.00	20.00
MOTA	1409	C	GLY			58.065	44.685	18.927		20.00
MOTA	1410	0	GLY			57.370	44.393		1.00	20.00
ATOM	1412	N	GLU			58.612	43.793	17.178	_	20.00
ATOM	1413	CA			974	58.445	42.383	17.357		20.00
ATOM	1414	C	GLU			58.379	41.981	18.795	1.00	20.00
ATOM	1415	0	GLU			59.246	42.274	19.572		20.00
MOTA	1416	CB	GLU			59.568	41.648	16.671	1.00	
ATOM	1417	CG			974	59.187	41.010	15.343	1.00	20.00
ATOM	1418	CD	GLU			57.698	41.173	14.936	1.00	20.00
MOTA	1419	OE1			974	56.763	40.870	15.733	1.00	
ATOM	1420	OE2	GLU	Ā	974	57.467	41.592	13.780	1.00	20.00
MOTA	1422	N	ASN			57.305	41.316	19.147	1.00	
MOTA	1423	CA	ASN			57.119	40.830	20.483	1.00	20.00
ATOM	1424	C	ASN	Ą	975	56.741	41.832	21.554	1.00	20.00
ATOM	1425	0	ASN	A	975	56.811	41.544	22.758		20.00
ATOM	1426	CB	ASN	Α	975	58.333	40.006	20.864		20.00
MOTA	1427	CG	ASN	Α	975	58.189	38.519	20.428	1.00	20.00
ATOM	1428	OD1	ASN	Α	975	58.243	37.639	21.263	1.00	20.00
ATOM	1429	ND2	ASN	Α	975	57.988	38.266	19.136		20.00
ATOM	1433	N	TYR			56.299	43.003	21.103	1.00	20.00
ATOM	1434	CA	TYR			55.839	44.047	21.988		20.00
ATOM	1435	C	TYR			56.946	44.589	22.839	_	20.00
ATOM	1436	ō	TYR			56.797	44.863	24.016	1.00	20.00
ATOM	1437	CB	TYR			54.684	43.498	22.830	1.00	20.00
	1438	CG	TYR			53.466	43.191	21.993	1.00	20.00
ATOM	1438	CD1				52.878	41.927	22.017	1.00	20.00
MOTA	1440	CD2			976	52.939	44.157	21.112	1.00	20.00
ATOM		CEl			976	51.801	41.624	21.182	1.00	20.00
ATOM	1441	CE2			976	51.874	43.870	20.279	1.00	20.00
MOTA	1442				976	51.306	42.604	20.307	1.00	20.00
MOTA	1443	CZ			976	50.273	42.291	19.427	1.00	20.00
MOTA	1444	OH	VAL		977	58.070	44.787	22.191	1.00	20.00
ATOM	1447	N			977	59.260	45.295	22.845	1.00	20.00
ATOM	1448	CA				59.536	46.766	22.497	1.00	20.00
'ATOM		, C			977	59.446	47.195	21.355	1.00	20.00
ATOM	1450	0			977		44.377	22.485	1.00	20.00
MOTA	1451	CB			977	60.514	44.854	23.182	1.00	20.00
ATOM	1452	CG1			977	61.768	42.943	22.890	1.00	20.00
MOTA	1453		VAL			60.230		23.525		20.00
ATOM	1455	Ŋ			978	59.839	47.529			20.00
ATOM	1456	CA			978	60.174	48.898	23.328		20.00
ATOM	1457	С			978	61.434	48.921	22.476		20.00
ATOM	1458	0			978	62.242	48.026	22.527		20.00
ATOM	1459	CB			978	60.423	49.546	24.643		20.00
ATOM	1461	N			979	61.597		21.653		
ATOM	1462	CA	LYS	A	979	62.791	50.005	20.864		20.00
ATOM	1463	C	,LYS	A	979	63.098	51.476	20.826		20.00
ATOM	1464	0			979	62.263	52.262	20.387		20.00
ATOM	1465	CB			. 979	62.551	49.492	19.448		20.00
ATOM	1466	CG			979	62.076	48.043	19.369		20.00
ATOM	1467	CD			979	63.115	47.009	19.864		20.00
MOTA	1468	CE			979	63.866	_	18.708		20.00
MOTA	1469	NZ			979	63.212		18.253		20.00
	1474	N			980	64.274		21.302		20.00
ATOM					980	64.615	53.287	21.240	1.00	20.00
MOTA	1475	CA	TILL	2 ب	, ,,,,					

ATOM	1476	С	ILE	A	980		65.131	53.691	19.858	1.00	20.00
ATOM~	1477	0	ILE	A	980		65.938	53.004	19.233	1.00	20.00
ATOM	1478	CB	ILE				65.671	53.665	22.263	1.00	20.00
ATOM	1479	CGl	ILE				65.205	53.311	23.667	1.00	20.00
MOTA	1480	CG2	ILE	A	980		65.943	55.135	22.173	1.00	20.00
ATOM	1481	CDl	ILE	A	980		66.262	53.521	24.730	1.00	20.00
MOTA	1483	N	ALA	Α	981		64.629	54.815	19.383	1.00	20.00
ATOM	1484	CA	ALA	Α	981		65.038	55.342	18.097	1.00	20.00
ATOM	1485	C	ALA	A	981		65.244	56.854	18.141	1.00	20.00
ATOM	1486	0	ALA	A	981		65.039	57.530	19.172	1.00	20.00
MOTA	1487	CB	ALA	Α	981		64.024	55.024	17.060	1.00	20.00
ATOM	1489	N	ASP	A	982		65.610	57.362	16.973	1.00	20.00
MOTA	1490	·CA	ASP	A	982		65.888	58.763	16.721	1.00	20.00
ATOM	1491	C	ASP	A	982		66.653	59.517	17.801	1.00	20.00
ATOM	1492	0	ASP	Α	982		66.041	60.135	18.684	1.00	20.00
MOTA	1493	CB	ASP	A	982		64.620	59.527	16.416	1.00	20.00
ATOM	1494	CG	ASP	A	982		64.911	60.946	16.122	1.00	20.00
ATOM	1495	OD1			982		65.455	61.240	15.031	1.00	20.00
ATOM	1496	OD2	ASP	A	982		64.626	61.766	16.998	1.00	20.00
ATOM	1498	N			983		67.988	59.525	17.706	1.00	20.00
ATOM	1499	CA	PHE				68.770	60.223	18.733	1.00	20.00
ATOM	1500	C			983		70.123	60.755	18.312	1.00	
ATOM	1501	0			983		70.565	60.712	17.155	1.00	20.00
ATOM	1502	CB			983		69.001	59.327	19.948	1.00	
ATOM	1503	CG			983		69.411	57.928	19.589	1.00	
ATOM	1504	CD1	PHE				68.856	57.280	18.452	1.00	
ATOM	1505	CD2	PHE				70.310	57.244	20.375	1.00	
ATOM	1505	CE1			983		69.181	55.987	18.106	1.00	
			PHE				70.648	55.939	20.044		20.00
ATOM	1507	CE2 CZ	PHE				70.048	55.308	18.895	1.00	
ATOM	1508	N N	GLY				70.797	61.274	19.305	1.00	20.00
ATOM	1510		GLY					61.799	19.010	1.00	
ATOM	1511	CA							18.913	1.00	
MOTA	.1512	C	GLY				73.058	60.661	19.633	1.00	20.00
ATOM	1513	0	GLY				72.980	59.633		1.00	
ATOM	1515	N	LEU				73.978	60.846	17.977	1.00	20.00
MOTA	1516	CA	LEU				75.055	59.913	17.812		
MOTA	1517	C	ĻEU				76.044	60.741	18.669	1.00	20.00
ATOM	1518	0	LEU				77.236	60.872	18.323	1.00	
MOTA	1519	CB	LEU				75.483	59.871	16.342	1.00	
ATOM	1520	CG	LEU				75.093	58.770	15.337		20.00
ATOM	1521		LEU				75.645	57.463	15.830		20.00
MOTA	1522		LEU				73.579	58.659	15.129		20.00
MOTA	1524	KL,	SER				75.561	61.306	19.786		20.00
ATOM	1525	CA	SER				76.443	62.118	20.611		20.00
MOTA	1526	С	SER	A	986		76.926	61.629	21.970		20.00
MOTA	1527	0	SER				76.169	61.709	22.937		20.00
ATOM	1528	CB	SER	A	986		75.850	63.504	20.815		20.00
ATOM	1529	OG	SER				76.764	64.504	20.379		20.00
ATOM	1532	N	ARG	A	987		78.189	61.152	22.037	1.00	20.00
ATOM	1533	CA	ARG	A	987		78.763	60.709	23.306		20.00
ATOM	1534	С	ARG	Α	987	-	79.511	61.893	23.794		20.00
ATOM	1535	0	ARG				80.191	62.578	23.059	1.00	20.00
ATOM	1536	CB	ARG				79.752	59.525	23.214	1.00	20.00
ATOM	1537	CG	ARG			•	79.583	58.534	22.078	1.00	20.00
ATOM	1538	CD	ARG				80.953	58.120	21.459		20.00
ATOM	1539	NE.	ARG				81.908	57.509	22.396		20.00
ATOM	1540	CZ.	ARG				82.932	56.731	22.021		20.00
MI ON	7040	<u></u>	ALC:		, ,						

ATOM	1541	NHI				83.127	56.473	20.738	1.00	20.00
ATOM	1542	NH2	ARG	\overline{V}	987	83.761	56.206	22.936	1.00	
ATOM	1549	N	\mathtt{GLY}	A	988	79.387	62.122	25.068	1.00	20.00
ATOM	1550	CA	GLY	A	986	80.028	63.260	25.633	1.00	20.00
ATOM	1551	C	GLY	A	988	79.480	63.223	27.024	1.00	20.00
ATOM	1552	0	GLY	A	988	79.050	62.151	27.453	1.00	20.00
ATOM	1554	N	GLN			79.521	64.369	27.704	1.00	20.00
ATOM	1555	CA	-		989	79.020	64.579	29.053	1.00	20.00
ATOM	1556	C	GLN			78.115	65.864	29.062	1.00	20.00
ATOM	1557	0	GLN			77.565	66.257	30.075	1.00	20.00
			GLN							
ATOM	1558	CB				80.219	64.739	29.974	1.00	
MOTA	1559	CG	GLN			79.924	65.292	31.348	1.00	20.00
ATOM	1560	CD			989	81.068	66.095	31.985	1.00	
MOTA	1561	OE1	GLN			81.783	66.897	31.332	1.00	
MOTA	1562	NE2	GLN			81.233	65.891	33.273	1.00	20.00
ATOM	1566	N	GLU	A	990	77.933	66.496	27.908	1.00	20.00
ATOM	1567	CA	GLU	Α	990	77.185	67.704	27.889	1.00	20.00
ATOM	1568	С	GLU	A	990	76.348	68.030	26.675	1.00	20.00
ATOM	1569	0	GLU	A	990	75.199	68.420	26.836	1.00	20.00
ATOM	1570	CB	GLU	A	990	78.134	68.853	28.117	1.00	20.00
ATOM	1571	CG	GLU			78.194	69.367	29.499	1.00	20.00
ATOM	1572	CD	GLU			79.467	68.991	30.151	1.00	
ATOM	1573	OE1	GLU			80.437	68.623	29.443	1.00	
		OE2	GLU							20.00
ATOM	1574					79.486	69.061	31.387		
MOTA	1576	N	VAL			76.878	67.895	25.469		20.00
ATOM	1577	CA	VAL			76.098	68.270	24.274		20.00
MOTA	1578	C	VAL			75.373	69.616	24.400		20.00
ATOM	1579	0	VAL	A	991	74.538	69.823	25.274	1.00	20.00
ATOM	1580	CB	VAL	Α	991	74.965	67.324	23.910	1.00	20.00
ATOM	1581	CG1	VAL	A	991	74.620	67.527	22.479	1.00	20.00
MOTA	1582	CG2	VAL	Α	991	75.323	65.922	24.159	1.00	20.00
ATOM	1584	N	TYR	A	992	75.674	70.528	23.504	1.00	20.00
ATOM	1585	CA	TYR			74.997	71.780	23.514	1.00	20.00
ATOM	1586	C	TYR			74.389	71.784	22.118	1.00	20.00
ATOM	1587	0	TYR			75.036	71.437	21.138		20.00
MOTA	1588	CB	TYR			76.003	72.945	23.687		20.00
ATOM	1589	CG	TYR			75.520	74.227	23.007		20.00
										20.00
ATOM	1590	CD1	TYR .			74.579	75.023	23.654		
MOTA	1591	CD2	TYR			75.804	74.487	21.702	1.00	
MOTA	1592	CEl	TYR			73.939	75.989	22.987	1.00	20.00
MOTA	1593	CE2	TYR			75.160	75.453	21.044	1.00	20.00
MOTA	1594	CZ	TYR	<u> </u>	992	74.218	76.200	21.690		20.00
MOTA	1595	ЭΗ	TYR	A	992	73.552	77.196	21.023	1.00	20.00
ATOM	1598	N	VAL .	Α	993	73.131	72.161	22.020	1.00	20.00
ATOM	1599	CA	VAL .	A	993	72.482	72.226	20.712	1.00	20.00
ATOM	1600	C	VAL .	A	993	71.311	73.168	21.008	1.00	20.00
ATOM	1601	0	VAL .			70.748	73.116	22.101	1.00	20.00
ATOM	1602	CB	VAL			72.102	70.746	20.159		20.00
ATOM	1603		VAL			71.570	69.843	21.226		20.00
	1604		VAL			71.121	70.843	19.076		20.00
ATOM										20.00
ATOM	1606	N	LYS .			70.990	74.076	20.082		
ATOM	1607	CA	LYS .			69.917	75.099	20.335		20.00
MOTA	1608	С	LYS			69.171	75.616	19.093		20.00
MOTA	1609	0			994	69.784	76.097	18.105		20.00
ATOM	1610	CB	LYS	A	994	70.508	76.336	21.083		20.00
ATOM	1611	CG	LYS	A	994	69.513	77.422	21.498		20.00
ATOM	1612	CD	LYS	A	994	69.827	78.812	20.847	1.00	20.00

ATOM	1613	CE	LYS	A.	994	69.627	80.017	21.856	1.00	20.00
ATOM	1514	NΣ	LYS	Α	994	70.649	81.165	21.795	1.00	20.00
MCTA	1619	N			995	67.841	75.573	19.202	1.00	20.00
MOTA	1620	CA	LYS			66.914	75.962	18.132	1.00	
ATOM	1621	С	LYS		995	65.884	74.827	18.184	1.00	20.00
ATOM	1622	0	LYS	'Α	995	65.303	74.470	17.139	1.00	20.00
ATOM	1623	CB	LYS	Α	995	67.633	75.996	16.736	1.00	20.00
ATOM	1624	OXT	LYS	Δ	995	65.718	74.295	19.306	1.00	20.00
ATOM	1626	N			001	59.536	69.751	22.343	1.00	20.00
ATOM	1627	CA	PRO			60.339	69.285	23.473	1.00	20.00
ATOM	1628	С	PRO	A	001	60.137	70.032	24.772	1.00	20.00
ATOM	1629	0	PRO	Α	001.	60.361	69.470	25.821	1.00	20.00
ATOM	1630	CB	PRO	A	001	61.803	69.328	23.049	1.00	20.00
ATOM	1631	CG	PRO	Δ	001	61.735	69.311	21.525		20.00
ATOM	1632	CD	PRO			60.238	69.446	21.080		20.00
ATOM	1635	N	VAL			59.712	71.287	24.728		20.00
ATOM	1636	CA	VAL	A	002	59.503	72.082	25.958	1.00	20.00
ATOM	1637	C	VAL	A.	002	58.748	71.338	27.019	1.00	20.00
ATOM	1638	0	VAL	A	002	58.868	71.595	28.206	1.00	20.00
ATOM	1639	CB	VAL	A	002	58.690	73.333	25.706	1.00	20.00
ATOM	1640	CG1	VAL	A.	002	58.862	74.285	26.868	1.00	20.00
ATOM	1641	CG2	VAL			59.105	73.960	24.419		20.00
			ARG							
ATOM	1643	N				57.939	70.406	26.586		20.00
ATOM	1644	CA	ARG			57.158	69.637	27.519		20.00
ATOM	1645	C	ARG			57.966	68.497	28.085		20.00
ATOM	1646	0	ARG	A	003	57.686	68.013	29.163	1.00	20.00
ATOM	1647	CB	ARG	Α	003	55.943	69.145	26.797	1.00	20.00
ATOM	1648	CG	ARG	A	003	55.600	70.041	25.655	1.00	20.00
ATOM	1649	CD	ARG	A	003	54.176	69.825	25.386	1.00	20.00
ATOM	1650	NE	ARG			53.404	70.556	26.347	1.00	
ATOM	1651	CZ	ARG			52.340	71.236	25.991		20.00
ATOM	1652	NHl				52.002	71.218	24.710	1.00	20.00
ATOM	1653	NH2	ARG			51.653	71.922	26.889	1.00	
ATOM	1660	N	TRP	A	004	58.998	68.136	27.340	1.00	20.00
MOTA	1661	CA	TRP	A	004	59.930	67.076	27.691	1.00	20.00
ATOM	1662	C	TRP	A	004	61.183	67.519	28.368	1.00	20.00
ATOM	1663	0	TRP	Δ	0 0.4	61.602	66.921	29.361	1.00	20.00
ATOM	1664	CB			004	60.293	66.257	26.452	1.00	20.00
ATOM	1665	CG			004	59.275	65.242	26.277	1:00	20.00
MOTA	1666	CD1			004	59.163	64.113	27.004	1.00	20.00
ATOM	1667	CD2	TRP	A	004	58.027	65.395	25.588	1.00	20.00
MOTA	1668	NEl	TRP	Α	004	57.932	63.567	26.839	1.00	20.00
MOTA	1669	CE2	TRP	Α	004	57.208	64.336	25.976	1.00	20.00
MOTA	1670	CE3	TRP	A	004	57.518	66.339	24.696	1.00	20.00
ATOM	1671	CZ2	TRP			55.911	64.185	25.506		20.00
ATOM	1672	CZ3	TRP			56.192	66.185	24.224		20.00
										20.00
ATOM	1673	CH2	TRP			55.426	65.126	24.632		
ATOM	1676	N	MET			61.767	68.590	27.874		20.00
MOTA	1677	CA	MET	A	005	63.025	69.060	28.428		20.00
MOTA	1678	C	MET	A	005	63.185	69.238	29.950	1.00	20.00
ATOM	1679	0	MET	A	005	62.268	69.013	30.733	1.00	20.00
ATOM	1680	CB	MET			63.433	70.335	27.699	1.00	20.00
ATOM	1681	CG	MET			64.246	70.052	26.452		20.00
			MET			63.856	71.198	25.171		20.00
ATOM	1682	SD								20.00
MOTA	1683	CE	MET			64.138	72.700	26.081		
ATOM	1685	N	ALA			64.402	69.581	30.358		20.00
MOTA	1686	CA	ALA	A	006	64.714	69.835	31.765	1.00	20.00

MOTA	1687	С	ALA	A	006	65.147	71.295	31.859	1.00 20.00
MOTA	1688	0			006	65.854	71.804	30.965	1.00 20.00
MCTA	1689	CB			006	65.819	68.944	32.215	1.00 20.00
MOTA	1691	N			007	64.694	71.961	32.930	1.00 20.00
ATOM	1692	CA	ILE	A	007	64.982	73.368	33.1 <i>6</i> 7	1.00 20.00
MOTA	1693	С	ILE	A	007	66.361	73.633	32.607	1.00 20.00
ATOM	1694	0	ILE	A	007	66.500	74.388	31.663	1.00 20.00
ATOM	1695	CB	ILE	A	007	64.876	73.725	34.674	1.00 20.00
ATOM	1696	CGl	ILE	A	007	65.897	72.943	35.501	1.00 20.00
MOTA	1697	CG2	ILE	Α	007	63.518	73.339	35.193	1.00 20.00
ATOM	1698	CD1	ILE	A	007	66.781	73.773	36.516	1.00 20.00
ATOM	1700	N	GLU	A	008	67.361	72.921	33.131	1.00 20.00
ATOM	1701	CA	GLU			68.768	73.052	32.719	1.00 20.00
ATOM	1702	С	GLU	A	800	68.886	73.301	31.217	1.00 20.00
ATOM	1703	0	GLU	A	800	69.401	74.319	30.811	1.00 20.00
ATOM	1704	CB	GLU	A	800	69.565	71.799	33.174	1.00 20.00
ATOM	1705	CG	GLU	A	800	69.424	70.540	32.296	1.00 20.00
ATOM	1706	CD	GLU	A	008	69.290	69.267	33.131	1.00 20.00
ATOM	1707	OEl	GLU	Α	008	69.605	69.369	34.325	1.00 20.00
ATOM	1708	OE2	GLU	A	800	68.867	68.187	32.613	1.00 20.00
ATOM	1710	N	SER	Α	009	68.388	72.388	30.384	1.00 20.00
ATOM	1711	CA	SER			68.456	72.641	28.947	1.00 20.00
ATOM	1712	C	SER			67.387	73.630	28.440	1.00 20.00
ATOM	1713	0	SER			67.491	74.109	27.327	1.00 20.00
ATOM	1714	CB	SER			68.424	71.329	28.129	1.00 20.00
ATOM	1715	OG	SER			67.325	70.511	28.426	1.00 20.00
ATOM	1718	N	LEU			66.361	73.915	29.246	1.00 20.00
ATOM	1719	CA	LEU			65.328		28.869	1.00 20.00
ATOM	1720	C	LEU			66.043	74.909 76.294		1.00 20.00
ATOM	1721	0	LEU			65.881		28.797 27.816	1.00 20.00
ATOM	1722		LEU				77.047		
ATOM	1723	CG	LEU			64.213	74.966	29.928	1.00 20.00
						62.880	74.229	29.760	1.00 20.00
ATOM	1724	CD1	LEU			61.863	75.034	30.483	1.00 20.00
ATOM	1725		LEU			62.459	74.066	28.330	1.00 20.00
ATOM	1727	N	ASN			66.825	76.577	29.854	1.00 20.00
MOTA	1728	CA	ASN			67.663	77.762	30.020	1.00 20.00
ATOM	1729	C	ASN			68.799	77.692	28.983	1.00 20.00
MOTA	1730	0	ASN			68.799	78.348	27.914	1.00 20.00
ATOM	1731	CB	ASN			68.303	77.725	31.386	1.00 20.00
MOTA	1732	CG	ASN			67.325	77.469	32.474	1.00 20.00
MOTA	1733		ASN				77.759	32.316	1.00 20.00
ATOM	1734		ASN			67.791	76.929	33.607	1.00 20.00
MOTA	1738	и.	TYR			69.774	76.859	29.325	1.00 20.00
ATOM	1739	CA	TYR	A	012	70.918	76.611	28.481	1.00 20.00
ATOM	1740	C	TYR	A	012	70.488	75.487	27.544	1.00 20.00
MOTA	1741	0	TYR	A	012	69.908	74.499	28.020	1.00 20.00
MOTA	1742	CB	TYR	A	012	72.047	76.179	29.370	1.00 20.00
ATOM	1743	CG	TYR	Д	012	71.787	76.590	30.784	1.00 20.00
ATOM	1744	CD1	TYR	Α	012	71.854	75.680	31.809	1.00 20.00
ATOM	1745	CD2	TYR	A	012	71.474	77.879	31.097	1.00 20.00
ATOM	1746		TYR			71.619	76.047	33.097	1.00 20.00
ATOM	1747		TYR			71.246	78.242	32.357	1.00 20.00
ATOM	1748	CZ	TYR			71.321	77.328	33.361	1.00 20.00
ATOM	1749	OH	TYR			71.143	77.709	34.668	1.00 20.00
ATOM	1752	N	SER			70.711	75.615	26.235	1.00 20.00
	1753	CA	SER			70.309	74.544	25.335	1.00 20.00
ATOM	1754	C	SER			71.274	73.385	25.467	1.00 20.00
7-1-014	エ・フェ	•			J - J	12.217	, , , , , ,	23.407	2.00 20.00

ATOM	1755	0	SER A	7	013		71.810	72.898	24.464	1.00	20.00
ATOM	1756	CB	SER A				70.291	75.025	23.898	1.00	20.00
ATOM	1757	OG	SER A				70.122	76.432	23.813	1.00	20.00
ATOM	1760	N	VAL A	À .	014		71.469	72.957	26.713	1.00	20.00
ATOM	1761	CA	VAL A				72.378	71.890	27.084	1.00	20.00
ATOM	1762	С	VAL A				71.711	70.603	27.571	1.00	20.00
ATOM	1763	0	VAL A	Α.	014		70.895	70.613	28.493	1.00	20.00
ATOM	1764	CB	VAL A	Ą	014		73.316	72.316	28.230	1.00	20.00
ATOM.	1765	CG1	VAL A	7	014		74.335	73.331	27.748	1.00	20.00
ATOM	1766	CG2	VAL A	Ą	014		72.490	72.849	29.394	1.00	20.00
ATOM	1768	N	TYR A	Ą	015		72.100	69.472	27.009	1.00	20.00
ATOM	1769	CA	TYR A	Ą	015		71.502	68.235	27.446	1.00	20.00
ATOM	1770	C	TYR A	A.	015		72.543	67.266	28.029	1.00	20.00
ATOM	1771	0	TYR I	Ą	015		73.619	67.072	27.494	1.00	20.00
ATOM	1772	CB	TYR A	Δ	015		70.783	67.599	26.252	1.00	20.00
ATOM	1773	CG	TYR Z	Ą	015		69.875	68.533	25.477	1.00	20.00
ATOM	1774	CD1	TYR Z	Ą	015		70.194	68.918	24.179	1.00	20.00
ATOM	1775	CD2	TYR Z				68.665	68.975	26.022	1.00	20.00
ATOM	1776	CEl	TYR	Ą	015		69.334	69.718	23.416	1.00	20.00
ATOM	1777	CE2	TYR				67.782	69.778	25.286	1.00	20.00
ATOM	1778	CZ	TYR .	A	015		68.116	70.150	23.968	1.00	20.00
ATOM	1779	OH	TYR				67.249	70.935	23.209	1.00	20.00
ATOM	1782	N	THR				72.253	66.679	29.161	1.00	20.00
ATOM	1783	CA	THR	A.	016		73.172	65.695	29.673	1.00	20.00
ATOM	1784	C	THR .				72.464	64.347	29.834	1.00	20.00
ATOM	1785	ō	THR				71.573	63.995	29.086	1.00	20.00
ATOM	1786	CB	THR				73.717	66.097	31.000	1.00	20.00
ATOM	1787	OG1	THR				72.692	66.000	31.993	1.00	20.00
ATOM	1788	CG2	THR .		016		74.253	67.455	30.909	1.00	20.00
ATOM	1791	N	THR .				72.891	63.584	30.818	1.00	20.00
ATOM	1792	CA	THR				72.235	62.339	31.031	1.00	20.00
ATOM	1793	C	THR				71.021	62.785	31.819	1.00	20.00
ATOM	1794	0	THR				69.889	62.570	31.364	1.00	20.00
ATOM	1795	СВ	THR				73.112	61.308	31.826	1.00	20.00
ATOM	1796	OG1	THR		017		73.546	60.286	30.931	1.00	20.00
ATOM	1797	CG2	THR		017		72.315	60.660	32.954	1.00	20.00
ATOM	1800	N	ASN				71.265	63.454	32.958	1.00	20.00
ATOM	1801	CA	ASN				70.189	63.934	33.825	1.00	20.00
ATOM	1802	C	ASN				69.025	64.568	33.108	1.00	20.00
ATOM	1803	ō	ASN			*	67.937	64.530	33.636	1.00	20.00
ATOM	1804	CB	ASN				70.696	64.904	34.868		20.00
ATOM	1805	'ÇG	ASN				71.785	64.331	35.676		20.00
MOTA	1805		ASN				71.761	64.412	36.887	1.00	20.00
ATOM	1807	ND2					72.767	63.734	35.013		20.00
ATOM	1811	N	SER				69.247	65.184	31.948		20.00
ATOM	1812	CA	SER				68.132	65.740	31.199		20.00
MOTA	1813	C	SER				67.362	64.513	30.704		20.00
ATOM	1814	0	SER				66.145	64.414	30.875		20.00
ATOM	1815	CB	SER				68.613	66.544	30.006		20.00
ATOM	1816	OG	SER				69.999	66.633	30.051		20.00
	1819	И	ASP				68.110	63.583	30.104		20.00
ATOM		CA	ASP				67.596	62.309	29.604		20.00
ATOM	1820 1821	C	ASP				66.784	61.679	30.741		20.00
ATOM		0	ASP				65.672	61.194	30.543		20.00
ATOM	1822	CB			020		68.767	61.388	29.217	1.00	20.00
ATOM	1823	CG			020		69.154			1.00	20.00
ATOM	1824		ASP L ASP				68.649	62.363	26.979		2000
ATOM	1825	נעט	רבית ו	7	020		00.0.0				

ATOM	1826	OD2	ASP	<u>Z-</u>	020	69.992	60.673	27.292	1.00	20.00
ATOM	1828	N	VAL			67.294	61.728	31.955	1.00	20.00
ATOM	1829	CA	VAI			66.522	61.083	32.960	1.00	20.00
	1830	C			021 .	65.300	61.826	33.326	1.00	20.00
ATOM		0			021	64.372	61.212	33.879	1.00	20.00
ATOM	1831	CB	VAL			67.316	60.766	34.204	1.00	20.00
ATOM	1832					66.471	60.862	35.417	1.00	20.00
ATOM	1833	CG1			021			34.110	1.00	20.00
ATOM	1834	CG2	VAL			67.803	59.362		1.00	20.00
MOTA	1836	N			022	65.290	63.135	33.035		20.00
ATOM	1837	CA			022	64.157	64.016	33.326	1.00	
ATOM	1838	С	_		022	63.051	63.699	32.319	1.00	20.00
ATOM	1839	0			022	61.948	63.268	32.629	1.00	20.00
MOTA	1840	CB	TRP	A	022	64.596	65.468	33.160	1.00	20.00
ATOM	1841	CG	TRP	Α	022 ·	63.439	66.467	33.254	1.00	20.00
ATOM	1842	CD1	TRP	A.	022	62.437	66.648	32.337	1.00	20.00
ATOM	1843	CD2	TRP	A	022	63.161	67.366	34.322	1.00	20.00
ATOM	1844	NE1	TRP	Α	022	61.576	67.578	32.767	1.00	20.00
ATOM	1845	CE2	TRP	A	022	61.985	68.049	33.984	1.00	20.00
ATOM	1846	CE3	TRP	A	022	63.791	67.662	35.529	1.00	20.00
ATOM	1847	CZ2			022	61.413	69.029	34.815	1.00	20.00
ATOM	1848	CZ3			022	63.237	68.626	36.355	1.00	20.00
	1849	CH2			022	62.052	69.303	35.992	1.00	20.00
ATOM		N	SER			63.407	63.969	31.084	1.00	20.00
MOTA	1852		SER			62.591	63.721	29.928	1.00	20.00
ATOM	1853	CA				61.978	62.316	30.007		20.00
ATOM	1854	C	SER				62.092	29.540		20.00
ATOM	1855	0	SER			60.863			1.00	20.00
MOTA	1856	CB	SER			63.497	63.860	28.709		20.00
MOTA	1857	OG	SER			62.747	63.795	27.527		
MOTA	1860	N	TYR			62.731	61.390	30.617		20.00
MOTA	1861	CA	TYR	Α	024	62.361	59.980	30.801		20.00
ATOM	1862	C	TYR			60.980	59.761	31.454		20.00
MOTA	1863	0	TYR	Α	024	60.137	58.991	30.967	1.00	20.00
ATOM	1864	CB	TYR	A	024	63.436	59.307	31.627	1.00	20.00
ATOM	1865	CG	TYR	Α	024	63.129	57.866	31.859	1.00	20.00
ATOM	1866	CDI	TYR	A	024	63.276	56.948	30.849	1.00	20.00
ATOM	1867	CD2	TYR	Α	024	62.479	57.473	33.019	1.00	20.00
ATOM	1868	CEl	TYR	Α	024	62.766	55.706	30.979	1.00	20.00
ATOM	1869	CE2	TYR			61.962	56.236	33.157	1.00	20.00
ATOM	1870	CZ	TYR			62.099	55.365	32.135	1.00	20.00
	1871	OH	TYR			61.517	54.160	32.263	1.00	20.00
ATOM		Ŋ	GLY			60.803	60.436	32.583		20.00
MOTA	1874		GLY			59.558	60.427	33.311		20.00
MOTA	1875	CA				58.477	61.257	32.614		20.00
ATOM	1876	C	GLY					33.058		20.00
ATOM	1877	0	GLY			57.365	61.290	31.544		20.00
ATOM	1879	N	VAL			58.747	61.974			20.00
ATOM	1880	CA	VAL			57.596	62.614	30.980		
ATOM	1881	C	VAL			57.057	61.313	30.484		20.00
MOTA	1882	0	VAL	A	026	56.006	60.906	30.923		20.00
MOTA	1883	CB	VAL	A	026	57.889	63.625	29.823		20.00
MOTA	1884	CG1	VAL	A	026	56.583	64.258	29.328		20.00
ATOM	1885	CG2	VAL	A	026	58.746	64.717	30.327		20.00
ATOM	1887	N	LEU	Α	027	57.843	60.639	29.632		20.00
MOTA	1888	CA	LEU			57.535	59.273	29.064	1.00	20.00
ATOM	1889	C	LEU			56.767	58.278	30.014		20.00
ATOM	1890	0	LEU			55.745	57.736	29.702	1.00	20.00
ATOM	1891	CB			027	58.852	58.615	28.663	1.00	20.00
		CG			027	58.843	57.551	27.579		20.00
ATOM	1892	ب	∪ شدید	'n	J. ,	20.043				

				_				26 267	1.00	20.00
ATOM	1893	CDl	LEU			58.238	58.171	26.367		
ATOM	1894	CDZ	LEU	A.	027	60.239	57.031	27.287		20.00
ATOM	1896	N	LEU	Ā	028	57.333	58.031	31.171	1.00	20.00
ATOM	1897	CA	LEU	A.	028	56.723	57.188	32.128	1.00	20.00
ATOM	1898	С	LEU	A	028	55.330	57.638	32.349	1.00	20.00
ATOM	1899	0		Ζ.	028	54.428	56.817	32.517	1.00	20.00
			LEU			57.455	57.281	33.427	1.00	20.00
ATOM	1900	CB							1.00	20.00
ATOM.	1901	CG	LEU			56.778	56.395	34.430		
MOTA	1902	CD1			028	56.765	55.005	33.926	1.00	20.00
ATOM	1903	CD2	LEU	Ą	028	57.488	56.475	35.740	1.00	20.00
ATOM	1905	N	TRP	A	029	55.148	58.961	32.409	1.00	20.00
ATOM	1906	CA	TRP	A	029	53.820	59.578	32.612	1.00	20.00
ATOM	1907	С			029	53.028	59.464	31.295	1.00	20.00
ATOM	1908	0			029	51.869	59.142	31.301	1.00	20.00
					029	54.010	61.029	.33.088	1.00	20.00
MOTA	1909	CB							1.00	20.00
ATOM	1910	CG			029	52.746	61.841	33.293		
ATOM	1911	CD1	TRP	A	029	52.207	62.275	34.483	1.00	20.00
ATOM	1912	CD2	TRP	A	029	51.934	62.381	32.271		20.00
ATOM	1913	NE1	TRP	A	029	51.113	63.057	34.241	1.00	20.00
ATOM	1914	CĖ2	TRP	A	029	50.925	63.138	32.892	1.00	20.00
ATOM	1915	CE3	-		029	51.962	62.298	30.886	1.00	20.00
					029	49.975	63.798	32.185	1.00	20.00
MOTA	1916	CZ2						30.186		20.00
MOTA	1917	CZ3			029	51.018	62.951			20.00
MOTA	1918	CH2	TRP			50.030	63.701	30.830		
ATOM	1921	N	GLU			53.684	59.695	30.166	1.00	20.00
ATOM	1922	CA	GLU	Α	030	53.067	59.537	28.861		20.00
ATOM	1923	C	GLU	A	030	52.592	58.103	28.823	1.00	20.00
ATOM	1924	Ö	GLU	A	030	51.775	57.758	27.982	1.00	20.00
ATOM	1925	CB	GLU			54.099	59.616	27.737	1.00	20.00
		CG	GLU			54.380	60.917	27.071	1.00	20.00
ATOM	1926					55.162	60.706	25.771	1.00	20.00
ATOM	1927	CD	GLU						1.00	20.00
MOTA	1928	OEl	GLU			55.818	59.668	25.665		
MOTA	1929	OE2	GLU	A	030	55.144	61.535	24.838		20.00
ATOM	1931	N	ILE	A	031	53.124	57.260	29.711	1.00	20.00
ATOM	1932	CA	ILE	A	031	52,839	55.820	29.680	1.00	20.00
ATOM	1933	С	ILE	Α	031	51.803	55.305	30.628	1.00	20.00
ATOM	1934	0	ILE		031	50.931	54.585	30.219	1.00	20.00
			ILE			54.192	54.974	29.833	1.00	20.00
ATOM		·CB					54.722	28.459	1.00	20.00
ATOM	1936	CG1	ILE			54.803			1.00	20.00
MOTA	1937	CG2	ILE			53.964	53.607	30.495		20.00
MOTA	1938	,CD1	ILE			56.144	54.104	28.543		
ATOM	1940	'N	VAL	A	032	51.893	55.672	31.892		20.00
MOTA	1941	CA	VAL	A	032	50.918	55.223	32.895		20.00
ATOM	1942	С	VAL	A	032	49.618	55.914	32.620	1.00	20.00
ATOM	1943	0	VAL			48.706	55.811	33.412	1.00	20.00
			VAL			51.306	55.664	34.327	1.00	20.00
ATOM	1944	CB				50.610	56.932	34.667		20.00
MOTA	1945		VAL							20.00
ATOM	1946	CG2			032	50.962	54.602	35.333		
ATOM	1948	N				49.552	56.605	31.493		20.00
MOTA	1949	CA	SER	Α	033	48.413	57.405	31.146		20.00
MOTA	1950	C	SER	A	033	47.776	57.027	29.850		20.00
ATOM	1951	ō			033	46.634	57.396	29.585	1.00	20.00
		CB			033	48.828	58.889	31.116	1.00	20.00
ATOM	1952					49.492	59.239	29.905		20.00
ATOM	1953	OG			033			29.019		20.00
ATOM	1956	N			034	48.513	56.329			20.00
ATOM	1957	CA			034	47.975	55.904	27.758		
MOTA	1958	Ç	LEU	Α	034	47.939	57.037	26.801	T.00	20.00

MCTA	1959	0	LEU	A	034	46.917	57.357	26.219		20.00
ATOM	1960	CB	LEU	Δ	034	46.580	55.366	27.923	1.00	20.00
	1961	CG	LEU			46.208	54.020	28,500	1.00	20.00
ATOM										20.00
ATOM	1962	CD1	LEU			46.074	54.041	29.977		
MOTA	1963	CD2	LEU	Α	034	44.892	53.709	27.900	1.00	20.00
ATOM	1965	N	GLY	A	035	49.091	57.663	26.658	1.00	20.00
	1966	CA	GLY			49.248	58.759	25.715	1.00	20.00
MOTA										20.00
ATOM	1967	C	GLY			48.581	60.112	25.920		
ATOM	1968	0	GLY	Α	035	48.145	60.734	24.947		20.00
MOTA	1970	N	GLY	Α	036	48.511	60.580	27.156	1.00	20.00
ATOM	1971	CA	GLY	A	036	47.902	61.874	27.364	1.00	20.00
			GLY			48.981	62.925	27.245		20.00
MOTA	1972	C								
MOTA	1973	0	GLY	A	036	50.097	62.697	27.759		20.00
ATOM	1975	N	\mathtt{THR}	A	037	48.692	64.027	26.543		20.00
ATOM	1976	CA	THR	A	037	49.656	65.126	26.400	1.00	20.00
ATOM	1977		THR			50.114	65.691	27.757	1.00	20.00
									1.00	
ATOM	1978	0	THR			49.289	65.966			
ATOM	1979	CB	THR			49.038	66.308	25.664		20.00
MOTA	1980	OG1	THR	A	037	49.457	66.326	24.301	1.00	20.00
ATOM	1981	CG2	THR			49.447	67.597	26.327	1.00	20.00
						51.445	65.866	27.966		20.00
ATOM	1984	N	PRO							
MOTA	1985	CA	PRO	Α	038	51.925	66.416	29.237		20.00
ATOM	1986	C	PRO	A	038	51.674	67.919	29.265	1.00	20.00
ATOM	1987	0	PRO	A	038	51.812	68.570	28.264	1.00	20.00
		CB	PRO			53.401	66.083	29.223	1.00	20.00
ATOM	1988									20.00
ATOM	1989	CG	PRO			53.573	65.116	28.170		
ATOM	1990	CD	PRO	Α	038	52.592	65.497	27.134		20.00
ATOM	1991	N	TYR	Α	039	51.296	68.471	30.407	1.00	20.00
MOTA	1992	CA	TYR			51.040	69.900	30.494	1.00	20.00
						49.928	70.255	29.514		20.00
ATOM	1993	C	TYR							
ATOM	1994	0	TYR	А	039	50.174	71.011	28.551		20.00
MOTA	1995	CB	TYR	A	039	52.317	70.678	30.156	1.00	20.00
MOTA	1996	CG	TYR	A	039	53.492	70.254	31.016	1.00	20.00
			TYR			54.593	69.571	30.470	1.00	20.00
MOTA	1997	CD1								20.00
ATOM	1998	CD2	TYR			53.456	70.437	32.381		
ATOM	1999	CE1	TYR	Ą	039	55.586	69.088	31.288		20.00
ATOM	2000	CE2	TYR	A	039	54.438	69.966	33.188	1.00	20.00
ATOM	2001	CZ	TYR			55.489	69.290	32.656	1.00	20.00
							68.759	33.532	1.00	
ATOM	2002	OH	TYR			56.405				
ATOM	2005	N	CYS	Ą	040	48.713	69.706	29.757		20.00
ATOM	2006	·CA	CYS	Α	040	47.536	59.943	28.893		20.00
ATOM	2007	'C	CYS	Δ.	040	46.861	71.241	29.251	1.00	20.00
			CYS			46.426	71.456	30.371	1.00	20.00
MOTA	2008	0						28.952		20.00
MOTA	2009	CB			040	46.518	68.779			
ATOM	2010	SG	CYS	Α	040	45.587	68.439	27.332		20.00
MOTA	2012	N	GLY	A	041	46.773	72.105	28.261	1.00	20.00
ATOM	2013	CA			041	46.197	73.417	28.496	1.00	20.00
								29.222		20.00
ATOM	2014	С			041	47.251	74.257			
ATOM	2015	0	\mathtt{GLY}	A	041	46.977	74.928	30.241		20.00
ATOM	2017	N	MET	A	042	48.480	74.184	28.727	1.00	20.00
ATOM	2018	CA	MET	Δ	042	49.542	74.920	29.347	1.00	20.00
						50.391	75.508	28.241		20.00
ATOM	2019	C			042					20.00
ATOM	2020	0			042	50.540	74.944	27.173		
ATOM	2021	CB	MET	Ą	042	50.321	73.990	30.253		20.00
MOTA	2022	CG			042	50.038	74.150	31.721	1.00	20.00
		SD			042	51.637		32.551		20.00
MOTA	2023							34.142		20.00
MOTA	2024	CE	MET.	A	042	51.370	/3.004	, J=.1=4	1.00	
			•							
						FIG. 4	łCC	. ~		
								. '		
		•						•		

				_						
ATOM	2026	N			043	50.915	76.686	28.4 <i>6</i> 3	1.00	20.00
ATOM	2027	CA	THP	A	043	51.699	77.320	27.418	1.00	20.00
ATOM	2028	C	THR	A	043	53.137	77.204	27.856	1.00	20.00
ATOM	2029	0	THR	A	043	53.479	77.409	29.047		20.00
ATOM	2030	CB	THR	A	043	51.356	78.827	27.279		20.00
ATOM	2031	OGl	THR	A	043	51.534	79.465	28.565		20.00
ATOM	2032	CG2			043	49.905	79.033	26.760		20.00
MOTA	2035	N			044	53.977				
ATOM	2036	CA			044		76.862	26.885		20.00
	2030	C			044	55.388	76.714	27.139		20.00
ATOM						55.681	77.866	28.075		20.00
MOTA	2038	0			044	55.836	77.638	29.269	1.00	
ATOM	2039	CB			044	56.128	76.779	25.814	1.00	20.00
ATOM	2040	SG			044	55.373	75.549	24.616	1.00	20.00
ATOM	2042	N			045	55.664	79.092	27.554	1.00	20.00
ATOM	2043	CA			045	55.893	80.306	28.342	1.00	20.00
ATOM	2044	C	ALA	Ą	045	55.536	80.155	29.809	1.00	20.00
ATOM	2045	0	ALA	Ą	045	56.216	80.636	30.700	1.00	20.00
ATOM	2046	CB	ALA	Α	045	55.082	81.416	27.760		20.00
ATOM	2048	N	GLU			54.429	79.482	30.050		20.00
ATOM	2049	CA	GLU			53.961	79.269	31.390		20.00
ATOM	2050	C	GLU			54.902				
ATOM	2051	0	GLU				78.299	32.100		20.00
						55.309	78.558	33.243		20.00
ATOM	2052	CB	GLU			52.556	78.738	31.281		20.00
MOTA	2053	CG	GLU			51.601	79.002	32.429		20.00
ATOM	2054	CD	GLU			50.437	78.036	32.341		20.00
ATOM	2055	OEl	GLU			50.182	77.380	33.378	1.00	20.00
MOTA	2056	OE2	GLU			49.814	77.940	31.222	1.00	20.00
MOTA	2058	N	LEU	A	047	55.251	77.192	31.437	1.00	20.00
ATOM	2059	CA	LEU	A	047	56.203	76.207	32.001	1.00	20.00
ATOM	2060	Ç	LEU	A	047	57.470	76.893	32.593	1.00	20.00
ATOM	2061	0	LEU	A	047	57.712	76.853	33.805		20.00
ATOM	2062	CB	LEU	Α	047	56.639	75.203	30.914		20.00
ATOM	2063	CG	LEU			55.895	73.858	30.885		20.00
ATOM	2064	CD1	LEU			56.520	72.889			20.00
ATOM	2065	CD2	LEU					29.922		
MOTA	2067					55.884	73.280	32.256		20.00
		N	TYR			58.254	77.503	31.694		20.00
ATOM	2068	CA	TYR			59.483	78.267	31.974		20.00
MOTA	2069	С	TYR			59.499	78.978	33.311		20.00
ATOM	2070	0	TYR			60.325	78.669	34.188	1.00	20.00
ATOM	2071	CB	TYR	A	048	59.684	79.343	30.919	1.00	20.00
ATOM	2072	CG	ŢYR	A	048	60.217	78.874	29.611	1.00	20.00
MOTA	2073	CD1	TYR	A	048	59.370	78.692	28.518	1.00	20.00
ATOM	2074 .	ĊD2	TYR	A	048	61.570	78.629	29.459	1.00	20.00
ATOM	2075	CEl	TYR	Α	048	59.868	78.263	27.278	1.00	20.00
ATOM	2076	CE2	TYR			62.094	78.206	28.248	1.00	
ATOM	2077	CZ	TYR			61.250	78.013	27.141	1.00	
ATOM	2078	OH	TYR			61.799	77.541	25.930		20.00
ATOM	2081	N	GLU			58.601	79.954		1.00	
ATOM	2082	CA	GLU					33.446		
						58.527	80.725	34.680		20.00
ATOM	2083	C	GLU			58.074	79.756	35.720	1.00	
ATOM	2084		GLU			58.417	79.886	36.903	1.00	
ATOM	2085		GLU			57.485	81.840	34.5 <i>9</i> 2	1.00	
ATOM	2086		GLU			57.233	82.519	35.947	1.00	20.00
MOTA	2087	CD	GLU	A	049	55.761	82.820	36.314	1.00	20.00
ATOM	2088	OE1	GLU	A	049	54.860	82.700	35.453	1.00	20.00
ATOM	2089	OE2	GLU	A	049	55.540	83.185	37.497	1.00	20.00
MOTA	2091		LYS			57.277	78.791	35.243	1.00	
			_	_						

.. •

				0 = 0	56.683	77.749	36.092	1.00	20.00
MOTA	2092		LYS A				36.652		20.00
ATOM	2093		LYS A		57.625	76.655	37.789	-	20.00
MCTA	2094	0	LYS A		58.038	76.747	35.362		20.00
MOTA	2095	CB	LYS A		55.465	77.116			20.00
ATOM	2097	N	LEU A		57.965	75.640	35.880		20.00
ATOM	2098	CA	LEU A		58.854	74.592	36.398		
MOTA	2099	С	LEU A		59.828	75.002	37.553		20.00
MOTA	2100	0 "	LEU A	051	59.835	74.350	38.608		20.00
ATOM	2101	CB	LEU A	051	59.655	73.957	35.239		20.00
ATOM	2102	CG	LEU A	051	58.981	72.988	34.248		20.00
ATOM	2103	CD1	LEU A	051	57.669	72.566	34,7 <i>9</i> 8		20.00
ATOM	2104	CD2	LEU A	051	58.796	73.609	32.875		20.00
ATOM	2106	N	PRO A	052	60.673	76.050	37.346		20.00
ATOM	2107	CA	PRO A		61.652	76.601	38.292		20.00
ATOM	2108	C	PRO A		61.323	76.418	39.750	1.00	20.00
	2109	0	PRO A		61.675	75.396	40.337	1.00	20.00
ATOM	2110	CB	PRO A		61.724	78.053	37.895	1.00	20.00
MOTA		CG	PRO A		61.556	78.008	36.389	1.00	20.00
ATOM	2111		PRO A		60.771	76.762	36.051	1.00	20.00
ATOM	2112	CD	GLN A		60.706	77.399	40.394	1.00	20.00
ATOM	2113	N	GLN A		60.319	77.126	41.783	1.00	20.00
ATOM	2114	CA			58.915	76.531	41.498	1.00	20.00
MOTA	2115	C	GLN A		58.116	76.198	42.386		20.00
ATOM	2116	0	GLN A			78.414	42.664		20.00
MOTA	2117	CB	GLN A		60.274	76.413	40.208		20.00
ATOM	2119	N	GLY A		58.649	75.745	39.784		20.00
MOTA	2120	CA	GLY A		57.454		40.190		20.00
MOTA	2121	С	GLY A		57.520	74.261	40.150	1.00	
MOTA	2122	Ó	GLY A		58.564	73.730	40.002	1.00	
MOTA	2124	N	TYR A		56.363	73.629	40.370		20.00
MOTA	2125	CA	TYR A		56.081	72.268			20.00
MOTA	2126	С	TYR A		56.216	71.476	39.095	1.00	
ATOM	2127	0	TYR A		56.762	72.008	38.153		20.00
MOTA	2128	CB	TYR A		54.647	72.256	40.889	_	20.00
ATOM	2129	CG	TYR A		53.604	72.330	39.754		20.00
ATOM	2130	CD1			52.634	71.309	39.604	1.00	
ATOM	2131	CD2	TYR A		53.685	73.316	38.749	1.00	
ATOM -	2132	CEl			51.805	71.283	38.478		20.00
MOTA	2133	CE2			52.863	73.280	37.642		20.00
ATOM	2134	CZ	TYR A		51.928	72.264	37.501	1.00	
MOTA	2135	OH	TYR A	055	51.114	72.171	36.375	1.00	
MOTA	2138	N	ARG A	056	55.738	70.232	39.048	1.00	
ATOM	2139.	CA	ARG A	056	55.828	69.422	37.821		20.00
ATOM	2140	С	ARG A	056	54.504	68.699	37.494		20.00
ATOM	2141	0	ARG A	056	53.471	69.052	38.098		20.00
ATOM	2142	CB	ARG A	056	56.926	68.379	37.948		20.00
ATOM	2143	CG	ARG A	056	57.175	67.962	39.357		20.00
ATOM	2144	CD	ARG A	056	58.538	68.505	39.833		20.00
MCTA	2145	NE	ARG A	056	59.319	69.142	38.760		20.00
ATOM	2146	CZ	ARG A		60.182	70.114	38.982		20.00
ATOM	2147		L ARG A		60.367	70.542	40.201		20.00
ATOM	2148		ARG A		60.839	70.655	37.996		20.00
ATOM	2155	N	LEU A		54.531	67.705	36.565		20.00
	2156	CA	LEU A		53.312	66.955	36.203		20.00
ATOM		C	LEU A		52.643		37.370		20.00
MOTA	2157		LEU A		53.221				20.00
MOTA	2158	O O	LEU A		53.519			1.00	20.00
MOTA	2159	CB	LEU A		53.850		_		20.00
MOTA	2160	CG	LEU A	. 057	55.050	55.55			

10/1/1

PCT/US01/08853

		~~		70	077	E	E0 004	36.636	1 00	20.00
ATOM	2294	CG	MET			56.219	59.904			
ATOM	2295	SD	MET	Α	071	54.409	59.761	36.764		20.00
ATOM	2296	CE	MET	A	071	53.977	58.683	35.467	1.00	20.00
	2298	N	ARG	Δ	072	58.797	61.527	39.803	1.00	20.00
MOTA								40.345	-	20.00
ATOM	2299	CA	ARG			59.303	62.762			
ATOM	2300	C	ARG	Ą	072	60.739	62.807	40.778		20.00
MOTA	2301	0	ARG	A	072	61.312	63.884	40.945	1.00	20.00
MOTA	2302	CB	ARG	Д	072	58.412	63.145	41.499	1.00	20.00
		CG	ARG			56.978	63.140	41.074	1.00	20.00
ATOM	2303									20.00
MOTA	2304	CD	ARG	A	072	56.500	64.539	41.064		
MOTA	2305	NE	ARG	A	072	56.642	65.063	42.415		20.00
MOTA	2306	CZ	ARG	A	072	56.484	66.337	42.720	1.00	20.00
ATOM	2307	NHl	ARG			56.181	67.175	41.753	1.00	20.00
						56.642	66.771	43.968		20.00
MOTA	2308	NH2	ARG							
ATOM	2315	N	\mathtt{GLN}	A	073	61.325	61.647	41.011		20.00
MOTA	2316	CA	GLN	A	073	62.717	61.652	41.387	1.00	20.00
ATOM	2317	С	GLN	Α	073	63.481	61.931	40.084	1.00	20.00
	2318	0	GLN			64.658	62.267	40.105	1.00	20.00
MCTA						63.124	60.316	41.973		20.00
ATOM	2319	CB	GLN							
ATOM	2320	CG	GLN	A	073	63.076	60.211	43.490		20.00
ATOM	2321	CD	GLN	A	073	63.603	58.852	43.962	1.00	20.00
ATOM	2322	OEl	GLN	Δ	073	63.853	58.641	45.159	1.00	20.00
			GLN			63.792	57.925	43.008	1.00	20.00
MOTA	2323	NE2								20.00
MOTA	2327	N	CYS			62.819	61.805	38.947		
MOTA	2328	CA	CYS	Α	074	63.503	62.093	37.720		20.00
ATOM	2329	С	CYS	A	074	63.403	63.601	37.500	1.00	20.00
ATOM	2330	0	CYS	Δ	074	64.073	64.148	36.642	1.00	20.00
						62.847	61.361	36.524	1.00	20.00
MOTA	2331	CB			074					20.00
MOTA	2332	SG		Ą	074	62.746	59.548	36.564		
ATOM	2334	N	TRP	A	075	62.555	64.268	38.277		20.00
ATOM	2335	CA	TRP	A	075	62.311	65.708	38.110	1.00	20.00
ATOM	2336	C	TRP	Δ	075	62.906	66.552	39.231	1.00	20.00
						62.503	67.692	39.466		20.00
ATOM	2337	0	TRP							20.00
ATOM	2338	CB	TRP		075	60.797	65.977	38.037		
ATOM	2339	CG	TRP	\mathbf{A}	075	60.090	65.403	36.830		20.00
ATOM	2340	CD1	TRP	A	075	60.586	65.308	35.565	1.00	20.00
ATOM	2341	CD2	TRP	Δ	075	58.768	64.834	36.789	1.00	20.00
						59.669	64.720	34.751	1 00	20.00
MOTA	2342	NE1			075					20.00
ATOM	2343	CE2	TRP		075	58.542	64.416	35.468		
ATOM	2344	CE3	TRP	A	075	57.755	64.634	37.742		20.00
ATOM	2345	CZ2	TRP	A	075	57.343	63.808	35.062	1.00	20.00
ATOM	2346		TRP			56.551	64.024	37.331	1.00	20.00
			TRP			56.366	63.624	36.002		20.00
MOTA	2347	CH2								20.00
ATOM	2350	N	ARG			63.865	65.959	39.934		
ATOM	2351	CA	ARG	А	076	64.533	66.625	41.024		20.00
MOTA	2352	С	ARG	A	076	65.304	67.793	40.364	1.00	20.00
ATOM	2353	0	ARG			65.983	67.586	39.347	1.00	20.00
						65.462	65,.607	41.699	1.00	20.00
MOTA	2354	CB	ARG							20.00
ATOM	2355	CG	ARG			64.890	64.932	42.981		
ATOM	2356	CD	ARG	Α	076	65.230	63.413	43.072		20.00
MOTA	2357	ΝE	ARG	A	076	64.997	62.813	44.416	1.00	20.00
		CZ	ARG			65.490	61.630	44.835	1.00	20.00
ATOM	2358						60.880	44.037		20.00
ATOM	2359	NHl	ARG			66.258				20.00
ATOM	2360	NH2	ARG	Α	076	65.231	61.211	46.069		
MOTA	2367	N	GLU	Α	077	65.178	69.014	40.895		20.00
ATOM	2368	CA	GLU	Α	077	65.885	70.155	40.318	1.00	20.00
					077	67.310	69.773	39.983	1.00	20.00
ATOM	2369	С	تاري	7	3,,	J				

		_		_					
ATOM	2370	0			077	67.613	69.364	36.878	1.00 20.00
ATOM	2371	CB	GLU	Ą	077	65.889	71.343	41.278	1.00 20.00
MOTA	2373	N	LYS	A	078	68.184	69.910	40.953	1.00 20.00
ATOM	2374	CA	LYS	Ą	078	69.573	69.583	40.764	1.00 20.00
ATOM	2375	C '	LYS	A	078	69.811	68.228	40.037	1.00 20.00
ATOM	2376	0			078	69.850	67.194	40.664	1.00 20.00
		CB			078	70.225	69.573	42.138	1.00 20.00
ATOM	2377								
ATOM	2378	CG	LYS		078	69.346	70.070	43.275	1.00 .20.00
ATOM	2379	CD	LYS		078	70.069	69.962	44.591	1.00 20.00
ATOM	2380	CE	LYS	A.	078	69.301	70.580	45.713	1.00 20.00
ATOM	2381	NZ	LYS	Ą	078	69.362	69.789	47.005	1.00 20.00
ATOM	2386	N	PRO	Α	079	7.0.050	68.234	38.721	1.00 20.00
ATOM	2387	CA	PRO	A	079	70.261	66.980	38.006	1.00 20.00
ATOM	2388	С	PRO			70.943	65.885	38.771	1.00 20.00
	2389	0	PRO		079	70.451	64.770	38.811	1.00 20.00
ATOM									
ATOM	2390	CB	PRO			71.059	67.370	36.772	1.00 20.00
MOTA	2391	CG	PRO			70.896	68.782	36.633	1.00 20.00
MOTA	2392	CD	PRO	Α	079	70.218	69.385	37.832	1.00 20.00
ATOM	2393	N	TYR	Α	080	72.085	66.172	39.382	1.00 20.00
ATOM	2394	CA	TYR	A	080	72.804	65.132	40.133	1.00 20.00
ATOM	2395	C	TYR	Α	080	71.975	64.531	41.286	1.00 20.00
ATOM	2396	Ō	TYR			72.444	63.680	42.014	1.00 20.00
			TYR				65.707	40.640	1.00 20.00
ATOM	2397	CB				74.139			
MOTA	2398	CG	TYR			74.006	66.804	41.677	1.00 20.00
ATOM	2399	CD1	TYR			74.086	66.521	43.022	1.00 20.00
ATOM	2400	CD2	TYR	A	080	73.757	68.117	41.304	1.00 20.00
MOTA	2401	CEl	TYR	Α	080	73.915	67.500	43.955	1.00 20.00
ATOM	2402	CE2	TYR	A	080	73.588	69.104	42.245	1.00 20.00
ATOM	2403	CZ	TYR	A	080	73.664	68.784	43.562	1.00 20.00
ATOM	2404	OH	TYR			73.475	69.749	44.512	1.00 20.00
ATOM	2407	N	GLU			70.743	65.007	41.436	1.00 20.00
			GLU						1.00 20.00
ATOM	2408	CA				69.817	64.540	42.462	
MOTA	2409	С	GLU			68.878	63.538	41.797	1.00 20.00
ATOM	2410	0	GLU			68.205	62.751	42.451	1.00 20.00
ATOM	2411	CB	GLU	A	081	69.025	65.709	43.038	1.00 20.00
ATOM	2412	CG	GLU	A	081	69.358	66.053	44.505	1.00 20.00
MOTA	2413	CD	GLU	A	081	68.385	67.067	45.106	1.00 20.00
ATOM	2414	OE1	GLU	A	081	68.518	67.413	46.316	1.00 20.00
ATOM	2415	OE2	GLU			67.485	67.510	44.342	1.00 20.00
ATOM	2417	N	ARG		082	68.875	63.582	40.471	1.00 20.00
						68.097	62.678	39.655	1.00 20.00
ATOM	2418	CA -	ARG		082				
ATOM	2419	Ċ	ARG			68.622	61.223	39.710	1.00 20.00
ATOM	2420	0	ARG			69.814	60.963	3 <i>9</i> .981	1.00 20.00
MOTA	2421	CB	ARG	Δ	082	68.085	63.174	38.218	1.00 20.00
ATOM	2422	CG	ARG	A	082	66.784	63.856	37.837	1.00 20.00
ATOM	2423	CD	ARG	A	082	66.836	65.398	37.781	1.00 20.00
ATOM	2424	NE	ARG			67.235	65.908	36.451	1.00 20.00
ATOM	2425	CZ	ARG			67.427	67.194	36.163	1.00 20.00
			ARG			67.258	68.107	37.101	1.00 20.00
ATOM	2426								1.00 20.00
ATOM	2427	NH2	ARG			67.805	67.552	34.947	
ATOM	2434	N	PRO			67.725	60.237	39.513	1.00 20.00
ATOM	2435	CA	PRO			68.223	58.866	39.554	1.00 20.00
MOTA	2436	C	PRO	A	083	69.042	58.596	38.310	1.00 20.00
ATOM	2437	0	PRO	A	083	69.594	59.505	37.688	1.00 20.00
ATOM	2438	CB	PRO			66.942	58.037	39.582	1.00 20.00
ATOM	2439	CG	PRO			65.877	58.981	40.016	1.00 20.00
		CD	PRO			66.265	60.243	39.330	1.00 20.00
MOTA	2440	ردب	FRU	~	555	50.205	50.243		

·ATOM

ATOM 2507 C SER A 091

MCTA	2508	0	SER	Ą	091	60.265	49.286	40.228	1.00	20.00
ATOM	2509	CB	SER	A	091	62.780	51.317	40.030	1.00	20.00
ATOM	2510	OG	SER	<u>A</u>	091	63.064	51.756	41.334	1.00	20.00
ATOM	2513	N	LEU	A	092	61.125	49.264	38.146		20.00
ATOM	2514	CA	LEU	Δ	092	59.906	48.874	37.485		20.00
ATOM	2515	C	LEU		092	59.997	47.345	37.496		20.00
ATOM	2516	0	LEU			58.987	46.643	37.662	1.00	
		CB	LEU							
MCTA	2517					59.941	49.394	36.065	1.00	
MOTA	2516	CG	LEU			60.797	50.625	35.992	1.00	20.00
ATOM	2519	CD1	LEU		· ·	60.882	51.169	34.601		20.00
ATOM	2520	CD2	LEU			60.174	51.616	36.871		20.00
ATOM	2522	N	ASN			61.243	46.886	37.30 <i>6</i>	1.00	20.00
ATOM	2523	CA	ASN	A	093	61.699	45.495	37.299	1.00	20.00
ATOM	2524	C	ASN	Α	093	61.214	44.889	38.582	1.00	20.00
MOTA	2525	0	ASN	Α	093	60.803	43.724	38.635	1.00	20.00
ATOM	2526	CB	ASN	Α	093	63.206	45.466	37.438	1.00	20.00
MOTA	2527	CG	ASN	A	093	63.927	44.920	36.244	1.00	20.00
ATOM	2528	OD1	ASN	A	093	65.126	44.666	36.350	1.00	20.00
ATOM	2529	ND2	ASN			63.245	44.739	35.117		20.00
ATOM	2533	N	ARG			61.344	45.693	39.631		20.00
ATOM	2534	CA	ARG			60.992	45.309	40.985		20.00
ATOM	2535	C	ARG			59.515	45.614	41.318		20.00
ATOM	2536	0	ARG			59.112	45.717	42.468		20.00
ATOM	2537	CB	ARG			61.954	46.010	41.937		20.00
ATOM	2538	CG	ARG			61.850	45.571	43.339		20.00
MOTA	2539	CD	ARG			62.088	46.747	44.262	1.00	20.00
ATOM	2540	NE	ARG	A	094	61.170	46.917	45.403	1.00	20.00
ATOM	2541	CZ	ARG	A	094	59.842	47.007	45.328	1.00	20.00
ATOM	2542	NH1	ARG	A	094	59.224	46.948	44.164	1.00	20.00
ATOM	2543	NH2	ARG	A	094	59.129	47.209	46.438	1.00	20.00
ATOM	2550	N	MET	A	095	58.710	45.750	40.278	1.00	20.00
ATOM	2551	CA			095	57.306	46.018	40.421		20.00
ATOM	2552	C			095	56.723	44.944	39.527		20.00
ATOM	2553	0			095	55.597	44.512	39.706		20.00
ATOM	2554	CB			095	56.967	47.406	39.870		20.00
ATOM	2555	CG			095	57.240	48.556	40.822		20.00
ATOM	2556	SD			095	56.618	50.279	40.365		20.00
ATOM	2557	CE	MET .			56.509	50.955	42.056		20.00
MOTA	2559	N	LEU .			57.495	44.509	38.551		20.00
MOTA	2560	CA	LEU .	A	096	57.034	43.476	37.646	1.00	20.00
ATOM	2561	·C	LEU .	A	096	56.931	42.034	38.341	1.00	20.00
MOTA	2562	0	LEU .	A	096	56.594	40.999	37.738	1.00	20.00
ATOM	2563	CB	LEU .	A	096	57.960	43.493	36.401	1.00	20.00
ATOM	2564	CG	LEU .	A	096		44.684	35.421	1.00	20.00
ATOM	2565	CD1	LEU :				44.515	34.311	1.00	20.00
ATOM	2566		LEU				44.804	34.819		20.00
ATOM	2568	N	GLU :				41.981	39.633		20.00
ATOM	2569	CA	GLU .			57.102	40.734	40.327		20.00
										20.00
MOTA	2570	C	GLU :				40.934	41.642		
ATOM	2571	0	GLU :				41.042	42.664		20.00
ATOM	2572	CB	ĠLU :				40.252	40.606		20.00
ATOM	2573	CG	GLU .				40.519	39.475		20.00
MOTA	2574	CD	GLU :	A	097	60.327	39.305	39.212		20.00
MOTA	2575	OE1	GLU :	A	097	60.756	38.703	40.228	1.00	20.00
MOTA	2576	OE2	GLU :	A	097	60.564	38.961	38.022	1.00	20.00
MOTA	2578	N	GLU :	A	098	55.062	41.010	41.622	1.00	20.00
ATOM	2579	CA	GLU :			54.192	41.177	42.823		20.00

ATOM	2580	С	GLU	Α	098	52.812	41.404	42.219	1.00	20.00
ATOM	2581	0	GLU	A	098	51.765	41.462	42.905		20.00
ATOM	2582	CB	GLU	A	098	54.514	42.433	43.686	1.00	20.00
ATOM	2583	CG	GLU	Α	098	55.726	43.286	43.421	1.00	20.00
ATOM	2584	CD	GLU			56.655	43.318	44.654	1.00	20.00
ATOM	2585	OE1			098	56.157	43.414	45.803	1.00	20.00
ATOM	2586	OE2	GLU		098	57.903	43.232	44.488	1.00	20.00
	2588	N	ARG			52.872	41.529	40.898	1.00	20.00
ATOM	2589	CA.	ARG			51.725	41.820	40.069		20.00
ATOM			ARG			50.664	42.484	40.859		20.00
MOTA	2590	C	ARG			49.536	41.992	40.902		20.00
ATOM	2591	0			099	51.107	40.600	39.385		20.00
ATOM	2592	CB	ARG					38.173		20.00
ATOM	2593	CG	ARG			50.252	41.009	38.402		20.00
ATOM	2594	CD	ARG			49.462	42.327			20.00
ATOM	2595	NE	ARG		099	48.780	42.813	37.193		
MOTA	2596	CZ	ARG			48.995	44.001	36.614		20.00
MOTA	2597	NHI	ARG	A	099	49.888	44.858	37.132		20.00
ATOM	2598	NH2	ARG	A	099	48.348	44.319	35.492		20.00
ATOM	2605	N	LYS	Α	100	51.012	43.593	41.491	1.00	20.00
ATOM	2606	CA	LYS	A	100	49.996	44.273	42.208	1.00	20.00
ATOM	2607	C	LYS	A	100	49.233	45.314	41.412	1.00	20.00
MOTA	2608	0	LYS	A	100	48.414	46.009	41.961		20.00
ATOM	2609	CB	LYS	Α	100	50.568	44.887	43.452	1.00	20.00
ATOM	2610	CG			100	49.723	44.455	44.606	1.00	20.00
ATOM	2611	CD	LYS			48.746	43.295	44.135	1.00	20.00
	2612	CE	LYS			47.476	43.250	44.951	1.00	20.00
ATOM		NZ	LYS			47.799	42.986	46.386	1.00	20.00
ATOM	2613	N Z	THR			49.448	45.372	40.107		20.00
ATOM	2618		THR			48.825	46.402	39.284	1.00	20.00
MOTA	2619	CA				49.208	47.748	39.873		20.00
ATOM	2620	C	THR				48.131	40.984	1.00	20.00
ATOM	2621	0	THR			48.788		39.223	1.00	20.00
MOTA	2622	CB	THR			47.325	46.313			20.00
ATOM	2623	OGl	THR			46.859	45.424	40.224	1.00	
ATOM	2624	CG2	THR			46.913	45.840	37.852		20.00
MOTA	2627	N	TYR	A	.102	50.025	48.453	39.098		
MOTA	2628	CA	TYR	A	102	50.547	49.712	39.515		20.00
MOTA	2629	С	TYR			49.870	50.826	38.785	1.00	20.00
MOTA	2630	0	TYR	A	102	49.661	51.891	39.342		20.00
ATOM	2631	CB	TYR	A	102	52.040	49.684	39.310	1.00	20.00
ATOM	2632	CG			102	52.744	48.940	40.406	1.00	20.00
MOTA	2633	ĊD1	TYR	A	102	53.416	47.744	40.169	1.00	20.00
ATOM	2634	ĊD2	TYR			52.769	49.460	41.663		20.00
ATOM	2635	CEl			102	54.090	47.122	41.160		20.00
ATOM	2636	CE2			102	53.430	48.852	42.653		20.00
ATOM	2637	CZ			102	54.102	47.691	42.416	1.00	20.00
ATOM	2638	OH			102	54.846		43.470	1.00	20.00
ATOM	2641	N			103	49.568		37.524	1.00	20.00
		CA			103	48.790		36.741	1.00	20.00
ATOM	2642				103	47.512	50.735	36.788		20.00
ATOM	2643	С				47.571	49.547	37.137		20.00
ATOM	2644	0			103		51.597	35.265		20.00
ATOM	2645	CB			103	49.121		34.645		20.00
ATOM	2646	CG1			103	48.387	52.783			20.00
ATOM	2647	CG2			103	50.633	51.634	35.049		20.00
MOTA	2649	Ŋ			104	46.380	51.336	36.420		20.00
ATOM	2650	CA			104	45.109	50.645	36.473		20.00
ATOM	2651	С			104	44.386	51.023	35.231		
ATOM	2652	0	ASN	A	104	44.569	52.110	34.731	1.00	20.00
										•

WO 01/72778 PCT/US01/08853

ATOM	2653	CB	ASN	A	104	44.360	51.089	37.714	1.00	20.00
MOTA	2654	CG	ASN	A	104	42.863	51.071	37.544	1.00	20.00
MOTA	2655	ODl	ASN			42.348	51.013	36.431	1.00	20.00
MOTA	2656	NDZ			104	42.149	51.139	38.666	1.00	20.00
MCTA	2660	N			105	43.545	50.137	34.732	1.00	20.00
ATOM	2661	CA			105	42.855	50.390	33.490		20.00
MOTA	2662	C			105	41.412	49.870	33.596		20.00
ATOM	2663	0			105	40.678	49.783	32.593		20.00
ATOM	2664	CB			105	43.627	49.686	32.341		20.00
ATOM	2665	OG1			105	44.293	48.501	32.839	1.00	
ATOM	2666	CG2			105	44.686	50.595	31.792		20.00
ATOM	2669	N CA			106 106	41.013	49.565	34.831		20.00
ATOM ATOM	2670 2671	CA.			106	39.701	49.048	35.173		20.00
ATOM	2671	0			106	38.588	50.103	35.353		20.00
ATOM	2673	CB			106	38.818	51.077	36.038	1.00	
ATOM	2674	OGI	THR			39.850 39.615	48.258 46.869	36.473 36.226		20.00
ATOM	2675	CG2	THR			38.902	48.779	37.552		20.00
ATOM	2678	N	LEU			37.383	49.891	34.775	1.00	
ATOM	2679	CA	LEU			36.229	50.816	34.775	1.00	
ATOM	2680	C	LEU			35.437	50.546	36.199	1.00	
ATOM	2681	0	LEU			35.967	49.413	36.473		20.00
MOTA	2682	CB	LEU			35.279	50.655	33.739		20.00
ATOM	2683	CG	LEU			35.798	50.744	32.313		20.00
ATOM	2684	CD1	LEU			34:625	50.728	31.345		20.00
ATOM	2685	CD2	LEU			36.667	51.987	32.120		20.00
ATOM	2687	N	TYR			35.176	51.583	36.998		20.00
ATOM	2688	CA	TYR			34.436	51.444	38.260		20.00
ATOM	2689	C	TYR			33.529	52.660	38.590		20.00
ATOM	2690	0	TYR			33.124	52.843	39.767		20.00
MOTA	2691	CB	TYR	A	108	35.417	51.219	39.419		20.00
MOTA	2692	CG	TYR	Α	108	36.234	49.960	39.165	1.00	20.00
ATOM	2693	CD1	TYR	A	108	37.446	49.725	40.176	1.00	20.00
ATOM	2694	CD2	TYR	A	108	35.201	48.850	39.201	1.00	20.00
ATOM	2696	N	GLU	A	109	33.228	53.475	37.565	1.00	20.00
ATOM	2697	CA	GLU	Α	109	32.363	54.664	37.691	1.00	20.00
MOTA	2698	C	GLU	Α	109	33.115	55.935	37.364	1.00	20.00
MOTA	2699	0	GLU	A	109	34.039	56.360	38.093	1.00	20.00
ATOM	2700	CB	GLU			31.764	54.786	39.092		20.00
MOTA	2702	N	LYS			32.723	56.590	36.284	1.00	20.00
ATOM	2703	CA	LYS	A	110	33.431	57.801	35.968	1.00	20.00
MOTA	2704	\mathcal{C}	LYS			34.879	57.443	35.586		20.00
ATOM	2705	0	LYS			35.653		36.366		20.00
ATOM	2706	CB	LYS			33.373	58.742	37.176		20.00
ATOM	2707	CG	LYS			32.211	58.399	38.165		20.00
ATOM	2708	CD	LYS			31.414	59.597	38.754		20.00
MOTA	2709	CE	LYS			30.154	59.092	39.514		20.00
ATOM	2710	NZ	LYS			30.320	58.678	40.967		20.00
ATOM	2715	Ŋ	PHE			35.184	57.675	34.324		20.00
ATOM	2716	CA	PHE			36.489	57.460	33.833		20.00
ATOM	2717	C	PHE			36.665	58.179	32.520		20.00
ATOM	2718	0	PHE			36.065	57.840	31.494		20.00
ATOM	2719	CB	PHE			36.842	55.994	33.658		20.00
ATOM	2720	CG	PHE			38.193	55.795	33.013		20.00
ATOM	2721		PHE				55.675	33.772		20.00
ATOM	2722		PHE			38.332	55.861	31.657		20.00
MOTA	2723	CEl	PHE	A	111	40.601	55.639	33.171	1.00	20.00

ATOM	2724	CE2			39.575	55.824	31.077	1.00	20.00
ATOM	2725	CZ	PHE A		40.706	55.717	31.830	1.00	20.00
ATOM	2727	N	THR A	112	37.540	59.180	32.584	1.00	20.00
ATOM	2728	CA	THP A	112	37.904	59.997	31.457	1.00	20.00
MOTA	2729	С	THR A	112	39.374	59.703	31.350	1.00	20.00
ATOM	2730	0	THP A	112	39.967	59.297	32.329	1.00	20.00
ATOM	2731	CB	THR A	112	37.686	61.487	31.794	1.00	20.00
ATOM	2732	OGl	THR A	112	36.780	61.598	32.899	1.00	20.00
ATOM	2733	CG2	THR A		37.079	62.216	30.623	1.00	20.00
ATOM	2736	N	TYR A		39.926	59.880	30.153	1.00	20.00
MOTA	2737	CA	TYR A	113	41.339	59.706	29.866	1.00	20.00
ATOM	2738	C	TYR A	113	42.092	61.000	30.123	1.00	20.00
ATOM	2739	0	TYR A	113	41.837	61.669	31.105	1.00	20.00
ATOM	2740	CB	TYR A	113	41.520	59.320	28.433	1.00	20.00
ATOM	2741	CG	TYR A	113	41.095	57.923	28.236	1.00	20.00
MOTA	2742	CD1	TYR A	113	40.063	57.606	27.346	1.00	20.00
ATOM	2743	CD2	TYR A	113	41.699	56.879	28.960	1.00	20.00
ATOM	2744	CE1	TYR A	113	39.641	56.300	27.178	1.00	20.00
ATOM	2745	CE2	TYR A	113	41.283	55.573	28.792		20.00
MOTA	2746	CZ	TYR A		40.251	55.291	27.894		20.00
ATOM	2747	OH	TYR A		39.853	53.992	27.670		20.00
ATOM	2750	N	ALA A		42.958	61.423	29.201		20.00
ATOM	2751	CA	ALA A		43.754	62.605	29.511		20.00
ATOM	2752	C	ALA A		43.947	63.838	28.571		20.00
ATOM	2753	ō	ALA A		43.604	64.944	28.952		20.00
ATOM	2754	CB	ALA A		45.129	62.109	30.025		20.00
ATOM	2756	N	GLY A		44.491	63.670	27.377		20.00
ATOM	2757	CA	GLY A		44.727	64.815	26.532		20.00
ATOM	2758	C	GLY A						20.00
ATOM	2759	0	GLY A		44.350 45.029	64.834	25.059		20.00
ATOM	2761	N				64.291	24.173		
ATOM	2761		ILE A		43.220	65.504	24.838		20.00
		CA	ILE A		42.609	65.779	23.527		20.00
ATOM	2763	C	ILE A		41.516	64.772	23.037		20.00
ATOM	2764	O.		116	41.123	63.952	23.880		20.00
ATOM	2765	CB	ILE A		43.744	65.993	22.469		20.00
ATOM	2766	TXO	ILE A	110	41.049	64.815	21.867	1.00	20.00
TER	-	G 2	T1TT0 >	-				• • •	
HETATM	1	Cl	INH3A	1	58.776	51.045	11.645	0.00	0.00
HETATM	2	N2	INH3A	1	58.172	52.218	11.841	0.00	0.00
HETATM	3	C3	INH3A	1	58.936	53.310	12.056	0.00	0.00
HETATM		C4	AEHNI	1	60.320	53.244	12.077	0.00	0.00
HETATM	5.		INH3A	1	60.887	51.924	11.859	0.00	0.00
HETATM	6	N6	INH3A	1	60.101	50.854	11.646	0.00	0.00
HETATM	8	И8	INH3A	1	58.497	54.604	12.288	0.00	0.00
HETATM	9	C9	INH3A	1	59.673	55.293	12.446	0.00	0.00
HETATM	10	C10	AEHNI	1	60.842	54.525	12.326	0.00	0.00
HETATM	12	Nl3	AEHNI	1	62.289	51.734	11.876	0.00	0.00
HETATM	13	C14	INH3A	1	62.258	54.972	12.430	0.00	0.00
HETATM	14	C16	INH3A	1	57.098	55.079	12.339	0.00	0.00
HETATM	15	C17	INH3A	1	63.049	54.530	13.477	0.00	0.00
HETATM	16	C18	INH3A	1	64.374	54.941	13.612	0.00	0.00
HETATM	17	C19		1	64.935	55.815	12.687	0.00	0.00
HETATM	18	C20		ı	64.131	56.249	11.643	0.00	0.00
HETATM	19		INH3A	1	62.810	55.841	11.508	0.00	0.00
HETATM	23	N25		1	66.225	56.236	12.788	0.00	0.00
HETATM	24		INH3A	1	66.995	56.113	14.217	0.00	0.00
HETATM	25		INH3A	1	65.999	55.773	15.187	0.00	0.00
		·		-		,,		5.00	

HETATM	26	028	INH3A	ı	67.770	57.301	14.420	0.00	0.00
HETATM	27	C29	INH3A	1	68.100	54.741	14.032	0.00	0.00
HETATM	28	C30	INH3A	l	69.041	54.751	13.007	0.00	0.00
HETATM	29	C31	INH3A	l	69.873	53.654	12.825	0.00	0.00
HETATM	30	C32	INH3A	1	69.740	52.566	13.674	0.00	0.00
HETATM	31	C33	INH3A	ı	68.801	52.539	14.696	0.00	0.00
HETATM	32	C34	INH3A	1	67.972	53.639	14.872	0.00	0.00
HETATM	37	F39	INH3A	1	70.540	51.507	13.502	0.00	0.00
METATM	39	F41	INH3A	1	64.638	57.094	10.735	0.00	0.00
HETATM	40	C42	INH3A	1	56.781	55.784	13.669	0,00	0.00
HETATM	41	C43	INH3A	1	55.311	56.219	13.720	0.00	0.00
HETATM	42	C44	INH3A	ı	54.962	57.130	12.528	0.00	0.00
HETATM	43	C45	INH3A	1	55.278	56.419	11.202	0.00	0.00
HETATM	44	C46	INH3A	l	56.748	55.981	11.144	0.00	0.00
HETATM	53	C55	INH3A	1	53.385	58.715	13.548	0.00	0.00
HETATM	54	C56	INH3A	1	51.998	59.356	13.419	0.00	0.00
HETATM	55	N57	INH3A	1	50.930	58.353	13.520	0.00	0.00
HETATM	56	C58	INH3A	1	51.136	57.302	12.516	0.00	0.00
HETATM	57	C59	INH3A	1	52.522	56.662	12.658	0.00	0.00
HETATM	58	N60	INH3A	1	53.588	57.668	12.536	0.00	0.00
HETATM	68	C70	INH3A	1	49.599	58.958	13.416	0.00	0.00
TER									

~~									
CRYST	86	.000			2.000 90.			P4221	.2
SCALE1			01163	0.000			0.0000		
SCALE2			00000	0.011			0.0000		
SCALE3	-		00000	0.000			0.0000		
ATOM ATOM	1		PRO A		8.606		6.968		63.06
	2		PRO A		9.750		6.436	1.00	62.53
ATOM	3		PRO A		10.180		5.133		62.97
ATOM	4		PRO A		10.749		5.149		59.85
ATOM	5		PRO A		10.807		7.499		62.45
ATOM	6		VAL A		9.794		3.998		63.22
ATOM ATOM	7 8		VAL A		10.112		2.711		66.18
ATOM	9	0	VAL A		11.172	39.708	1.952		67.24
ATOM		CB	A LAV		11.086	40.927	1.837		68.73
ATOM	10 11		A LAV		8.866	38.691	1.843		66.96
ATOM	12	CG1	L VAL A		9.133		0.770		67.29
ATOM	13	N			7.637	38.224	2.629		66.80
ATOM	14	CA	LEU A		12.192	39.014	1.464		67.40
ATOM	. 15	CA	LEU A LEU A		13.300	39.569	0.705		67.89
ATOM	16	0			13.445	38.938	-0.680		68.53
ATOM	17	CB	LEU A LEU A		13.179	37.750	-0.875		67.98
ATOM	18	N	ASP A		14.589	39.374	1.493		67.17
ATOM	19	CA	ASP A ASP A		13.854	39.728	-1.668		70.32
ATOM	20	CA			13.962	39.181	-3.018		74.15
ATOM	21	0	ASP A ASP A		15.382	38.826	-3.421		75.07
ATOM	22	CB	ASP A		16.390	39.377	-2.978		74.87
ATOM	23	CG	ASP A ASP A		13.314	40.147	-4.017		76.15
ATOM	23		ASP A ASP A		13.968	41.518	-4.054		78.23
ATOM	25		ASP A		14.712	41.846	-3.092		79.04
ATOM	26	N N	TRP A		13.712	42.246	-5.051		78.55
ATOM	27	CA	TRP A		15.489 16.794	37.870	-4.336		77.12
ATOM	28	C	TRP A		17.288	37.480	-4.871		80.00
ATOM	29	0	TRP A		16.560	38.671 39 <i>.</i> 677	-5.674		80.90
ATOM	30	CB	TRP A		16.640		-5.750		82.56
ATOM	31	CG	TRP A		17.979	36.237	-5.738		81.50
ATOM	32	CD1			18.770	35.683 36.052	-6.126 -7.174		84.29
ATOM	33	CD2	TRP A		18.686	34.639	-7.174		85.04
ATOM	34	NE1	TRP A		19.932	35.323		1.00	85.54
ATOM	35	CE2	TRP A		19.895	34.435	-7.184 -6.138		
ATOM	36		TRP A		18.402	33.854	-4.317	1.00	86.16
ATOM	37		TRP A		20.822		-5.736		
ATOM			TRP A		19.317	32.899	-3.736	1.00	
ATOM	39		TRP A		20.513	32.723	-4.632	1.00	
ATOM	40	N	ASN A		18.490	38.703	-6.220	1.00	
ATOM	41	CA	ASN A 8		18.941	39.868	-6.995	1.00	
ATOM	42	C	ASN A		18.729	41.071	-6.079	1.00	
ATOM	43	0	ASN A		18.110	42.084	-6.381	1.00	
ATOM	44	CB	ASN A 8		18.164	39.937	-8.312	1.00	
ATOM	45	CG	ASN A 8		19.059	40.084	-9.532	1.00	
ATOM	46		ASN A 8		20.168	40.617	-9.420	1.00	
ATOM	47		ASN A 8		18.581	39.608 -		1.00	
ATOM	48	N	ASP A 8		19.204	40.923	-4.856	1.00	
ATOM	49		ASP A 8		19.120	41.815	-3.723	1.00	
ATOM	50		ASP A 8		19.874	41.123	-2.568	1.00	
ATOM	51		ASP A 8		19.952	41.542	-1.417		75.11
ATOM	52		ASP A 8		17.695	42.112	-3.299	1.00	
ATOM	53		ASP A 8		17.306	43.572	-3.217	1.00	
	-	-						v	, 5.55

ATOM	54		ASP A		17.885	44.406	-3. <i>9</i> 55	1.00 79.53
MOTA	55		ASP A		16.391	43.945	-2.444	1.00 78.52
MOTA	56	N	ILE A		20.438	39.973	-2.919	1.00 71.67
MOTA	57	CA	ILE A		21.270	39.189	-2.030	1.00 69.30
MOTA	58	C ·	ILE A		22.624	39.046	-2.750	1.00 67.35
ATOM	59	0	ILE A	824	22.678	38.352	-3.770	1.00 65.47
ATOM	60	CB	ILE A		20.744	37.783	-1.696	1.00 69.43
ATOM	61	CG1			19.356	37.733	-1.074	1.00 69.93
ATOM	62	CG2	ILE A	824	21.752	37.046	-0.820	1.00 69.07
ATOM	63	CD1	ILE A	824	19.156	38.009	0.386	1.00 71.48
MOTA	64	N	LYS A	825	23.649	39.735	-2.252	1.00 65.03
MOTA	65	CA	LYS A	825	24.977	39.581	-2.829	1.00 63.66
ATOM	66	C	LYS A	825	25.810	38.677	-1.903	1.00 62.88
MOTA	67	0	LYS A	825	26.290	39.103	-0.850	1.00 60.46
ATOM	68	CB	LYS A	825	25.688	40.893	-3.082	1.00 63.33
MOTA	69	N	PHE A	826	25.952	37.420	-2.315	1.00 62.22
MOTA	70	CA	PHE A	826	26.745	36.434	-1.595	1.00 63.65
MOTA	71	C	PHE A	826	28.243	36.752	-1.654	1.00 64.85
ATOM	72	0	PHE A	826	28.806	36.978	-2.738	1.00 65.98
ATOM	73	CB	PHE A	826	26.535	35.019	-2.151	1.00 63.23
ATOM	74	CG	PHE A	826	25.242	34.324	-1.828	1.00 63.28
MOTA	75	CD1	PHE A		24.194	34.262	-2.742	1.00 63.47
ATOM	76	CD2	PHE A		25.068	33.738	-0.587	1.00 62.78
ATOM	77	CE1	PHE A		23.013	33.606	-2.421	1.00 63.26
ATOM	78	CE2	PHE A		23.893	33.090	-0.261	1.00 63.76
ATOM	. 5 79	CZ	PHE A		22.859	33.026	-1.183	1.00 63.42
ATOM	80	N	GLN A		28.933	36.771	-0.514	1.00 64.73
ATOM	81	CA	GLN A		30.359	37.048	-0.474	1.00 63.67
ATOM	82	C	GLN A		31.182	35.763	-0.387	1.00 62.27
ATOM	83	0	GLN A		31.703	35.763	-1.356	1.00 61.84
ATOM	84	CB	GLN A		30.736	37.884	0.748	1.00 65.45
ATOM	85	CG	GLN A		29.641	38.676	1.428	1.00 69.14
ATOM	86	CD	GLN A		29.841	40.166	1.185	1.00 71.09
	87	OE1	GLN A					1.00 72.36
ATOM		NE2	GLN A		29.364	40.617	0.124	1.00 72.38
ATOM	88				30.442	40.865	2.124 0.838	1.00 71.89
ATOM	89.	N	ASP A		31.371	35.286		
ATOM	90	CA	ASP A		32.237	34.122	1.034	1.00 62.37
ATOM	91	C	ASP A		31.576	33.071	1.883	1.00 61.37
MOTA	92		ASP A		30.330	32.899	1.910	1.00 63.34
ATOM	93	CB	ASP A		33.605	34.623	1.532	1.00 63.30
ATOM	94	CG			33.536		2.977	
ATOM	95		ASP A		34.629		3.505	1.00 66.32
ATOM	96	OD2	ASP A		32.418		3.513	1.00 67.27
MOTA	97	N	VAL A		32.332		2.503	1.00 59.16
MOTA	98	CA	VAL A		31.820	31.095	3.339	1.00 56.81
MOTA	99	C 1	VAL A		32.101	31.413	4.805	1.00 57.13
MOTA	. 100	0	VAL A		33.252	31.767	5.119	1.00 57.41
MOTA	101	CB	VAL A	829	32.462	29.753	2.948	1.00 55.58
ATOM	102	CG1	VAL A	829	32.035	28.658	3.909	1.00 55.56
ATOM	103	CG2	VAL A	829	32.111	29.383	1.513	1.00 55.17
ATOM	104	N	ILE A	830	31.106	31.314	5.693	1.00 56.36
MOTA	105	CA	ILE A	830	31.360	31.613	7.108	1.00 54.69
ATOM	106	C	ILE A	830	31.971	30.371	7.750	1.00 54.51
MOTA	107	0	ILE A		32.927	30.411	8.507	1.00 54.88
ATOM	108	CB	ILE A		30.170		7.898	1.00 52.84
ATOM	109	CG1			29.780		7.374	1.00 52.48
ATOM	110		ILE A		30.518	32.300	9.375	1.00 51.14
	_ _ -			-		. = . =		

ATOM	168	CD1	LEU	A	839	26.155	30.260	0.433	1.00	47.96
MOTA	169	CD2	LEU	Α	839	28.160	29.519	1.717	1.00	44.56
ATOM	170	N	LYS	Α	840	28.053	34.107	3.847	1.00	47.52
MOTA	171	CA	LYS	Α	840	27.984	35.508	4.234	1.00	48.47
MOTA	172	С	LYS	Α	840	27.434	36.369	3.109	1.00	49.26
MOTA	173	0	LYS	A	840	27.837	36.150	1.960	1.00	49.21
ATOM	174	CB			840	29.393	35.943	4.654	1.00	48.66
ATOM	175	CG			.840	29.320	37.059	5.668		49.85
ATOM	176	CD			840	29.716	38.398	5.125		49.60
ATOM	177	CE	LYS			29.768	39.457	6.225		50.13
ATOM	178	NZ	LYS			31.184	39.749	6.580		51.35
ATOM	179	N	ALA			26.486	37.270	3.389		51.52
ATOM	180	CA	ALA			25.968	38.108	2.312		53.29
ATOM	181	C	ALA			25.768	39.564	2.726		54.51
ATOM	182	0	ALA			25.753	39.364	3.903		54.20
ATOM	183	CB	ALA				37.503			52.47
		N	ALA			24.641		1.837		
MOTA	184					25.564	40.398	1.714		57.16
ATOM	185	CA	ARG			25.154	41.784	1.915		60.23
MOTA	186	C	ARG			23.699	41.667	1.451	1.00	
ATOM	187	0	ARG			23.499	41.023	0.416		63.40
MOTA	188	CB	ARG			25.900	42.835	1.119		61.09
MOTA	189	CG	ARG			27.301	43.137	1.622		62.77
ATOM	190	CD	ARG			27.258	43.791	2.995		63.72
ATOM	191	NE	ARG			26.985	45.231	2.928		64.65
ATOM	192	CZ	ARG			26.963	45.986	4.017		65.52
MOTA	193	NHl	ARG	A	842	26.724	47.291	4.022		65.78
ATOM	194	NH2	ARG	A	842	27.158	45.436	5.214	1.00	66.80
ATOM	195	N	ILE	Α	843	22.745	42.047	2.281	1.00	63.86
MOTA	196	CA	ILE	A	843	21.322	41.935	1.983	1.00	66.38
ATOM	197	C	ILE			20.610	43.284	2.150	1.00	69.29
MOTA	198	0	ILE	А	843	20.337	43.810	3.233	1.00	72.01
ATOM .	199	CB	ILE	A	843	20.524	40.846	2.715	1.00	64.76
MOTA	200	CG1	ILE	Α	843	20.218	41.134	4.182	1.00	63.75
ATOM	201	CG2	ILE	A	843	21.198	39.477	2.638	1.00	65.06
ATOM	202	CD1	ILE	Α	843	19.030	40.372	4.733	1.00	61.60
ATOM	203	N	LYS	A	844	20.274	43.844	0.975	1.00	70.72
MOTA	204	CA	LYS	A	844 .	19.599	45.144	0.939	1.00	72.14
ATOM	205	C	LYS	A		18.157	45.087	1.427	1.00	73.85
ATOM	206	0	LYS	А	844	17.234	44.834	0.650	1.00	74.26
ATOM	207	CB	LYS			19.596	45.771	-0.449	1.00	71.35
ATOM	208	N	LYS				45.392	2.697	1.00	75.42
ATOM	209	CA	LYS			16.580	45.403	3.262		77.81
ATOM	210	ď	LYS			16.190	46.868	3.403	1.00	80.30
ATOM	211	0	LYS			16.751	47.630	4.197	1.00	
ATOM	212	CB	LYS			16.528	44.624	4.561	1.00	
ATOM	213	CG	LYS			15.188	44.450	5.231		76.89
ATOM	214	CD	LYS			15.318	43.734	6.572		76.27
ATOM	215	CE	LYS			13.956	43.469	7.205	1.00	
ATOM	216	NZ	LYS			14.066	42.788	8.521		74.44
ATOM	217	N	ASP			15.243	47.333	2.610		82.92
ATOM	218	CA	ASP			14.674	48.627	2.374	1.00	
			ASP							85.22
ATOM	219	C				15.649	49.493	1.560		85.44
ATOM	220	C D	ASP			15.804	49.302	0.353		86.44
ATOM	221	CB	ASP			14.070	49.395	3.514		
ATOM	222	CG	ASP			14.770	49.744	4.790		87.92
ATOM	223		ASP			15.058	50.942	5.029		88.52
MOTA	224	002	ASP	А	545	15.044	48.819	5.599	T.00	89.21

					_				
MOTA	225	N			847	16.337	50.395	2.231	1.00 85.08
MOTA	226	CA	GLY	A	847	17.317	51.266	1.590	1.00 83.96
ATOM	227	C	GLY	A	847	18.593	51.154	2.430	1.00 83.43
ATOM	228	0	GLY	Α	847	19.555	51.871	2.210	1.00 84.91
ATOM	229	N	LEU	A	848	18.493	50.239	3.396	1.00 81.24
ATOM	230	CA	LEU	A	848	19.634	49.951	4.250	1.00 78.49
MOTA	231	С	LEU	A	848	20.311	48.732	3.617	1.00 76.61
ATOM	232	0	LEU	A	848	19.608	47.760	3.340	1.00 76.98
ATOM	233	CB	LEU	Α	848	19.195	49.564	5.658	1.00 78.88
ATOM	234	CG	LEU	Α	848	18.312	50.582	6.388	1.00 79.08
ATOM	235	CD1	LEU	A	848	17.346	49.858	7.312	1.00 79.29
ATOM	236	CD2	LEU			19.184	51.563	7.157	1.00 79.32
ATOM	237	N	ARG			21.592	48.863	3.326	1.00 73.72
ATOM	238	CA	ARG			22.332	47.696	2.850	1.00 70.15
ATOM	239	C	ARG			22.830	47.095	4.175	1.00 67.06
ATOM	240	0	ARG			23.153	47.922	5.036	1.00 65.85
ATOM	241	CB	ARG			23.493	48.031	1.941	1.00 71.56
ATOM	242	CG	ARG			23.403	47.798	0.452	1.00 72.96
ATOM		CD	ARG				46.995	-0.110	1.00 72.30
	243					24.483			
ATOM	244	NE	ARG			25.606	47.792	-0.586	1.00 75.64
ATOM	245	CZ	ARG			26.848	47.399	-0.871	1.00 75.22
MOTA	246	NH1				27.183	46.121	-0.715	1.00 73.54
MOTA	247	NH2	ARG			27.739	48.290	-1.305	1.00 74.94
MOTA	248	N	MET			22.777	45.781	4.369	1.00 63.25
MOTA	249	CA			850	23.293	45.285	5.655	1.00 59.28
ATOM	250	,C	MET		850	23.898	43.883	5.493	1.00 55.95
ATOM	251	0			850	23.690	43.197	4.494	1.00 56.07
MOTA	252	CB			850	22.245	45.279	6.757	1.00 58.62
ATOM	253	CG			850	21.296	44.096	6.631	1.00 59.21
ATOM	254	SD	MET		850	19.724	44.280	7.443	1.00 59.73
MOTA	255	CE	MET		850	20.128	44.922	9.049	1.00 59.43
ATOM	256	Ñ			851	24.651	43.563	6.548	1.00 51.79
ATOM	257	CA	ASP	A	851	25.299	42.268	6.600	1.00 48.61
ATOM	258	С	ASP		851	24.332	41.192	7.084	1.00 45.57
MOTA	259	0	ASP	A	851	23.630	41.457	8.086	1.00 42.14
ATOM	260	CB	ASP	A	851	26.379	42.285	7.697	1.00 50.01
MOTA	261	CG	ASP	A	851	27.669	42.933	7.256	1.00 50.84
MOTA	262	OD1	ASP	Α	851	28.043	42.801	6.057	1.00 51.87
MOTA	263	OD2	ASP	A	851	28.272	43.563	8.144	1.00 50.81
ATOM	264	N	ALA	Α	852	24.472	39.961	6.632	1.00 45.45
MOTA	265	CA	ALA	Α	852	23.622	38.884	7.138	1.00 42.89
MOTA	266	Ç,	ALA	Α	852	24.373	37.570	7.066	1.00 42.71
ATOM	267	0	ALA	A	852	25.336	37.518	6.303	1.00 43.78
ATOM	268	CB	ALA	A	852	22.397	38.727	6.261	1.00 41.61
ATOM	269	N	ALA	A	853	23.847	36.577	7.785	1.00 43.18
ATOM	270	CA	ALA	А	853	24.394	35.222	7.668	1.00 43.19
ATOM	271	C	ALA	Α	853	23.300	34.446	6.931	1.00 45.23
ATOM	272	0	ALA			22.122	34.570	7.296	1.00 45.40
ATOM	273	CB	ALA	A	853	24.725	34.651	9.043	1.00 43.45
ATOM	274	N	ILE			23.599	33.717	5.863	1.00 45.69
MOTA	275	CA	ILE			22.561	33.051	5.093	1.00 46.79
ATOM	276	C	ILE			22.583	31.537	5.228	1.00 50.11
ATOM	277	0	ILE			23.643	30.913	5.101	1.00 51.97
ATOM	278	CB	ILE			22.686	33.334	3.581	1.00 45.28
ATOM	279	CG1				22.754	34.819	3.268	1.00 45.20
ATOM	280	CG2	ILE			21.553	32.685	2.794	1.00 45.13
ATOM	281	CD1	ILE			21.509	35.654	3.433	1.00 45.48

		3.7		~	055		22 422				
ATOM	282	N			855		21.408	30.949	5.453		51.72
ATOM	283	CA	LYS	A	855	•	21.355	29.474	5.425	1.00	54.33
ATOM	284	С	LYS	A	855		20.240	29.052	4.458	1.00	55.89
ATOM	285	0	T.YS	Δ	855		19.276	29.786	4.205	1 00	52.41
		CB	LYS				21.271	28.892			
MOTA	286								6.808		55.64
MOTA	287	CG	LYS				19.914	28.834	7.487		58.25
ATOM	288	$^{\rm CD}$	LYS	A	855		20.052	28.092	8.807	1.00	59.55
MOTA	289	CE	LYS	A	855		18.987	27.027	9.025	1.00	60.12
ATOM	290	NZ	LYS				19.484	26.165	10.151		60.89
		N	ARG				20.386		3.871		59.82
ATOM	291							27.871			
ATOM	292	CA	ARG				19.419	27.341	2.915		63.71
ATOM	293	C	ARG	A	856		18.809	26.009	3.309	1.00	66.24
MOTA	294	0	ARG	Α	856		19.456	25.004	3.565	1.00	66.29
ATOM	295	CB	ARG	Α	856		20.126	27.258	1.555	1.00	63.38
ATOM	296	N	MET				17.486	25.951	3.418		69.77
ATOM	297	CA			857		16.718	24.748	3.728		73.04
ATOM	298	С	MET	A	857		15.960	24.381	2.447	1.00	75.83
ATOM	299	0	\mathtt{MET}	A	857		16.149	25.126	1.472	1.00	77.44
ATOM	300	CB	MET	Α	857		15.761	24.965	4.887	1.00	72.49
ATOM	301	N	LYS	A	858		15.174	23.321	2.404	1.00	78.15
ATOM	302	CA	LYS				14.449	22.985	1.184		80.35
MOTA	303	C	LYS				13.181	22.168	1.417		81.76
MOTA	304	0	LYS				13.118	21.298	2.282		82.29
MOTA	305	CB	LYS	Α	858		15.320	22.196	0.212	1.00	80.34
ATOM	306	N	GLU	Α	859		12.171	22.427	0.593	1.00	82.86
ATOM	307	CA	GLU	Α	859		10.905	21.705	0.631	1.00	83.98
ATOM	308	C	GLÜ				10.372	21.378	2.024	1.00	84.84
ATOM	309	Ō	GLU				9.465	20.540	2.160		85.54
MOTA	310	CB	GLÜ	Α	859		11.040	20.388	-0.143	1.00	83.34
TER											
ATOM	311	N	ASP	${\mathtt B}$	868		3.887	24.257	9.102	1.00	74.33
MOTA	312	CA	ASP	В	868		4.969	23.506	9.742	1.00	73.45
ATOM	313	С			868		6.151	24.465	9.894	1.00	72.92
ATOM	314	ō			868		6.215	25.236	10.848		72.75
ATOM	315	CB	ASP				5.345	22.276	8.927		73.09
ATOM	316	N			869		6.973	24.491	8.845		71.93
ATOM	317	CA `	PHE	В	869		8.128	25.356	8.739	1.00	71.39
ATOM	318	С	PHE	В	869		7.722	26.812	8.514	1.00	69.85
ATOM	319	0	PHE	В	869		8.507	27.721	8.789	1.00	68.53
ATOM	320	CB			869		9.086	24.894	7.635		72.16
		N	ALA			-	6.485	27.041	8.084		68.66
ATOM	321										
ATOM	322.	ĆA	ALA				6.008	28.412	7.917		67.79
ATOM	323	C	ALA	В	870		5.699	28.972	9.300		66.69
ATOM	324	0	ALA	В	870		5.914	30.142	9.612	1.00	67.76
MOTA	325	CB	ALA	В	870		4.786	28.421	7.009	1.00	67.73
ATOM	326	N	GLY			,	5.125	28.124	10.156	1.00	64.74
ATOM	327	CA	GLY				4.746	28.539	11.506		63.48
ATOM	328	C	GLY				5.968	28.696	12.407		63.38
ATOM	329	0	\mathtt{GLY}				6.078	29.586	13.241		62.27
ATOM	330	N	GLU	В	872		6.936	27.789	12.259	1.00	63.08
ATOM	331	CA	GLU	В	872		8.163	27.830	13.033	1.00	62.41
ATOM	332	С	GLU				8.870	29.166	12.865	1.00	59.48
ATOM	333	0	GLU				9.299	29.759	13.849		59.18
			GLU				9.104	26.684	12.627		64.92
ATOM	334	CB									
ATOM	335	CG	GLU				8.756	25.334	13.218	•	67.28
MOTA	336	CD	GLU				9.191	24.093	12.474		68.33
ATOM	337	OE1	GLU	В	872		8.848	22.953	12.910	1.00	69.51

ATOM	338	OE2					.882	24.117		11.435		69.53
ATOM	339	N	LEU		873		.004	29.664		11.648		57.71
ATOM	340	CA	LEU		873	9	.635	30.916		11.312	1.00	
ATOM	341	C	LEU		873		.988	32.099		12.034		55.46
ATOM	342	0	LEU		873		.656	33.045		12.483		53.19
ATOM	343	CB	LEU		873		.629	31.206		9.816		54.80
MOTA	344	CG	LEU		873	10	.436	30.326		8.876	1.00	56.52
ATOM	345	CD1	LEU	В	873		.416	30.920		7.466	1.00	56.98
ATOM	346	CD2	LEU		873		.886	30.139		9.305	1.00	57.06
MOTA	347	N	GLU :		874	7	.663	32.055		12.083	1.00	53.38
ATOM	348	CA	GLU :	В	874	6	.839	33.058		12.743	1.00	53.73
ATOM	349	C	GLU :	В	874	7	.208	33.198		14.215	1.00	50.89
ATOM	350	0	GLU :	В	874	7	.431	34.279		14.773	1.00	48.19
ATOM	351	CB	GLU :	В	874	5	.379	32.579		12.639	1.00	57.54
MOTA	352	CG	GLU :	В	874	4	.388	33.300		13.533	1.00	61.33
ATOM	353	CD	GLU :	В	874	3	.007	32.638		13.433	1.00	64.62
ATOM	354	OE1	GLU :	В	874	2	.075	33.216		14.045	1.00	66.21
ATOM	355	OE2	GLU :	В	874	2	.876	31.577		12.771	1.00	64.60
ATOM	356	N	VAL :		875		.278	32.004		14.839	1.00	
ATOM	357	CA	VAL :		875		.665	31.965		16.266		47.64
ATOM	358	C	VAL I		875		.051	32.599		16.426		46.85
ATOM	359	ō	VAL 1		875		.211	33.498		17.257		45.14
ATOM	360	CB	VAL I		875		.523	30.545		16.799		47.78
ATOM	361	CG1			875		.477	30.264		17.946		48.21
ATOM	362	CG2	VAL I		875		.077	30.272		17.240		47.41
ATOM	363	N	LEU 1		876		.000	32.278		15.538		47.87
ATOM	364	CA	TEU :		876		.348	32.838		15.552		50.02
	365	C	LEU 1		876		.435	34.322		15.245		50.20
ATOM			LEU I		876		.285	34.988		15.845		51.04
ATOM	366	O.	LEU I		876		.308	32.074		14.611		48.16
ATOM	367	CB										49.64
ATOM	368	CG	LEU I		876		.598	30.663		15.159		
MOTA	369	CD1	LEU I		876		.303	29.816		14.116		48.69
ATOM	370		LEU I		876		.407	30.766		16.452		51.42
ATOM	371	N	CYS I		877		.607	34.849		14.358		50.72
ATOM	372	CA	CYS I				.638	36.276		14.029		51.41
ATOM	373	C	CYS I				.130	37.090		15.215		50.29
ATOM	374	0	CYS I		877		.630	38.171		15.550		49.69
ATOM	375	CB			877		.777	36.555		12.788		53.49
MOTA	376	SG	CYS I		877		.320	38.304		12.668	1.00	56.75
ATOM	377	N	LYS I		878		.155	36.480		15.922		49.77
ATOM	378	CA	LYS I				.602	37.082		17.122		49.11
ATOM	379.	Ć	LYS I				.567	37.033		18.298		47.30
MOTA	380	0	LYS E	3	878	9	.418	37.925		19.128		47.68
MOTA	381	CB	LYS I	3	878	7	.284	36.415	:	17.561		51.27
MOTA	382	CG	LYS I	3	878	6	.097	36.821	:	16.728	1.00	53.14
ATOM	383	CD	LYS I	3	878	5	.072	35.740	:	16.473	1.00	55.56
ATOM	384	CE	LYS F	3	878	4	.132	35.453	:	17.638	1.00	55.88
MOTA	385	NZ	LYS E	3	878	3	.445	34.138	:	17.433	1.00	57.41
ATOM	386	N	LEU E	3	879	10	.495	36.091	:	18.403	1.00	44.23
ATOM	387	CA	LEU E	3	879	11	.388	36.049	:	19.550	1.00	42.64
ATOM	388	C	LEU E				.665	36.881		19.317	1.00	41.06
ATOM	389	ō	LEU E				.291	37.300		20.264	1.00	39.35
ATOM	390	CB	LEU E				.857	34.606		19.819		41.39
ATOM	391	CG	LEU E				.790	33.580		20.246		40.34
ATOM	392		LEU F				.327	32.180		20.076		40.43
ATOM	393		LEU I				.378	33.826		21.693		40.68
ATOM	394	N	GLY F				.974	37.194		18.075		40.80
TIOM	J 24	TA	ייים	٠	500	1.4	/ 4	J 1 . 1.34	•		1.00	_0.00

WO 01/72778 PCT/US01/08853

ATOM	395	CA	GLY	В	880	14.164	37.870	17.686	1.00	42.66
MOTA	396	С	GLY	В	880	14.499	39.226	18.185	1.00	43.75
atom	397	0	GLY :	В	880	15.698	39.526	18.103	1.00	46.29
ATOM	398	N	HIS	В	881	13.580	40.053	18.637	1.00	42.86
MOTA	399	CA	HIS :	В	881	13.759	41.403	19.105	1.00	43.65
MOTA	400	С	HIS :	В	881	14.619	41.378	20.370	1.00	39.48
ATOM	401	0			881	15.539	42.203	20.446	1.00	43.05
ATOM	402	CB	HIS		881	12.417	42.127	19.236	1.00	
ATOM	403	CG			881	11.628	42.051	20.490	1.00	50.98
ATOM	404	ND1			881	10.412	41.442			
	405	CD2	HIS !		881			20.685	1.00	53.62
ATOM						11.944	42.576	21.711	1.00	53.62
ATOM	406	CE1			881	10.057	41.591	21.975		55.27
MOTA	407	NE2	HIS I		881	10.966	42.286	22.647		55.05
ATOM	408	N	HIS I		882	14.422	40.401	21.250	1.00	35.00
MOTA	409	CA	HIS I		882	15.234	40.280	22.473	1.00	33.75
ATOM	410	C	HIS E		882	16.695	40.394	22.053	1.00	29.63
ATOM	411	0	HIS I		882	17.099	39.702	21.115	1.00	32.51
ATOM	412	CB	HIS H	3	882	14.977	38.947	23.240	1.00	29.31
ATOM	413	CG	HIS E	3 1	882	15.458	39.007	24.665	1.00	28.91
ATOM	414	ND1	HIS E	3 1	882	16.739	38.861	25.208	1.00	28.25
ATOM	415	CD2	HIS E	3 8	882	14.687	39.334	25.705	1.00	27.99
ATOM	416	CE1	HIS E		882	16.623	39.049	26.523	1.00	28.98
ATOM	417	NE2	HIS E			15.346	39.333	26.866	1.00	
ATOM	418	N	PRO E		883	17.468	41.252	22.659		31.32
ATOM	419	CA	PRO E		883	18.882	41.398	22.375	1.00	31.40
ATOM	420	C	PRO E		B83	19.687	40.158	22.658	1.00	32.62
ATOM	421	0	PRO E		B83	20.700				
ATOM	422		PRO E		383		39.965	21.941	1.00	36.70
		CB				19.206	42.672	23.123		30.55
ATOM	423	CG	PRO E		883	18.433	42.543	24.437	1.00	33.27
ATOM	424	CD	PRO E		883	17.096	42.064	23.858		31.21
ATOM	425	N	ASN E		384	19.290	39.189	23.448		33.73
ATOM	426	CA	ASN E			19.999	37.942	23.685		32.47
ATOM	427	C	ASN E		384	19.496	36.811	22.823		34.37
ATOM	428	0	ASN E		384	19.901	35.659	23.051		34.65
ATOM	429	CB	ASN E	. 8	384	19.952	37.596	25.173		33.46
MOTA	430	CG	ASN E	8	384	20.404	38.649	26.117	1.00	36.23
ATOM	431	ODl	ASN E	. 8	384	20.011	39.181	27.122	1.00	37.73
ATOM	432	ND2	ASN B	. 8	384	21.749	38.992	25.840	1.00	32.70
ATOM .	433	N	ILE E	٤ :	385	18.623	37.014	21.825	1.00	32.48
ATOM	434	CA	ILE B		385	18.185	36.032	20.859	1.00	34.12
ATOM	435	С	ILE B	. 8	385	18.587	36.426	19.455	1.00	32.76
ATOM	436	Q	ILE B			18.359	37.539	18.982	1.00	•
ATOM	437	CB	ILE B			16.662	35.743	21.004	1.00	
ATOM	438	CG1	ILE B			16.442	35.119	22.402	1.00	
ATOM	439	CG2	ILE B			16.088	34.847	19.922	1.00	
MOTA	440	CD1	ILE B					22.653	1.00	
			ILE B			14.970	34.840			
ATOM	441	N				19.261	35.557	18.697	1.00	
ATOM	442	CA	ILE B			19.694	35.965	17.333	1.00	
ATOM	443	C	ILE B			18.478	36.272	16.468	1.00	
ATOM	444	0	ILE. B			17.526	35.459	16.453	1.00	
MOTA	445	CB	ILE B			20.693	34.967	16.752	1.00	
ATOM	446	CG1				21.549	35.590	15.622	1.00	
ATOM	447	CG2	ILE B	8	886	19.985	33.776	16.206	1.00	38.96
MOTA	448	CD1	ILE B			22.675	36.445	16.190	1.00	39.25
ATOM	449	N	ASN B	٤	387	18.472	37.380	15.731	1.00	38.67
ATOM	450	CA	ASN B	8	387	17.268	37.824	15.016	1.00	40.23
ATOM	451	С	ASN B	8	387	17.116	37.485	13.560	1.00	40.18
						•				

WO 01/72778 PCT/US01/08853

											- -
ATOM	452	0	ASN	B	887		18.061	37.480	12.780		41.35
ATOM	453	CB	ASN	В	887		17.153	39.347	15.231	1.00	
ATOM	454	CG	ASN	В	887		15.888	39.999	14.697		40.25
ATOM	455	OD1	ASN	В	887		15.961	41.166	14.290	1.00	39.53
ATOM	456		ASN		887		14.746	39.340	14.692	1.00	38.70
ATOM	457	N	LEU		888		15.891	37.146	13.147	1.00	42.05
ATOM	458	CA	LEU		888		15.624	36.781	11.744	1.00	43.89
	459	C	LEU		888		15.501	38.053	10.900	1.00	44.52
ATOM		0	LEU		888		14.790	38.957	11.351	1.00	42.69
ATOM	460		LEU		888		14.321	35.988	11.680		45.35
ATOM	461	CB	LEU		888		13.675	35.835	10.310		46.44
ATOM	462	CG			888		14.617	35.185	9.322		47.08
ATOM	463	CD1	LEU	_	888		12.393	35.011	10.433		48.74
MOTA	464	CD2	LEU				16.221	38.160	9.785		46.33
MOTA	465	N	LEU		889			39.377	9.004		48.96
ATOM	466	CA	LEU		889		16.106				48.91
MOTA	467	С	LEU		889		15.178	39.162	7.822		52.61
MOTA	468	0	LEU		889		14.331	40.055	7.642		52.03
ATOM '	469	CB	ΓEΛ		889		17.407	40.091	8.621		
MOTA	470	CG			889		18.022	40.806	9.850		54.44
ATOM	471	CD1			889		18.709	39.713	10.624		56.62
MOTA	472	CD2	LEU	В	889		19.053	41.862	9.535		56.92
MOTA	473	N	GLY	В	890		15.192	38.056	7.122		48.86
ATOM	474	CA	\mathtt{GLY}	В	890		14.281	37.806	6.027		49.19
ATOM	475	С	GLY	В	890		14.348	36.393	5.478		51.62
ATOM	476	0	GLY	В	890		15.216	35.581	5.811		49.54
ATOM	477	N	ALA	В	891		13.367	36.080	4.619		52.67
ATOM	478	CA	ALA		891		13.339	34.779	3.956		55.84
ATOM	479	C	ALA		891		13.195	35.036	2.454	1.00	58.68
ATOM	480	ō	ALA		891		12.782	36.128	2.056	1.00	60.04
ATOM	481	CB	ALA		891		12.292	33.826	4.471	1.00	54.13
ATOM	482	N	CYS				13.681	34.109	1.646		61.71
ATOM	483	CA	CYS		892		13.618	34.248	0.200	1.00	64.65
ATOM	484	C	CYS		892		13.505	32.847	-0.403	1.00	67.70
ATOM	485	0	CYS		892		14.279	31.955	-0.046	1.00	68.56
	486	CB	CYS		892		14.817	34.942	-0.412	1.00	63.99
ATOM		SG	CYS		892		14.859	34.973	-2.216	1.00	64.16
ATOM	487	N	GLU		893		12.506	32.682	-1.262	1.00	70.26
ATOM	488		GTO		893		12.337	31.411	-1.965	1.00	72.47
MOTA	489	CA	GLU		893		12.959	31.542	-3.354	1.00	72.44
MOTA	490	С			893		12.603	32.421	-4.134	1.00	72.20
MOTA	491	0	GLU		893		10.873	30.991	-2.027	1.00	74.16
MOTA	492	ÇВ					10.291	30.437	-0.736	1.00	76.17
ATOM	493		GLU					30.210	-0.801		77.74
ATOM	494	CD	GLU				8.789		-1.611		78.37
MOTA	495	OE1					8.126	30.906	-0.069		78.86
MOTA	496	OE2					8.230	29.357			73.54
MOTA	497	N			894		13.922	30.697	-3.677		74.67
MOTA	498	CA			894		14.594	30.700	-4.977		74.91
ATOM	499	С			894		14.847	29.255	-5.401		
MOTA	500	0			894		15.025	28.386	-4.542		74.35
MOTA	501	CB	HIS	В	894		15.857	31.531	-4.919		75.48
MOTA	502	CG			894		16.558	31.697	-6.225	1.00	
ATOM	503	NDl	HIS	В	894	-	17.369	30.719	-6.752		77.63
ATOM	504	CD2					16.587	32.733	-7.097	1.00	
ATOM	505		HIS				17.880	31.150	-7.893		78.14
MOTA	506	NE2			894		17.433	32.377	-8.119		77.87
ATOM	507	N			895		14.774	28.959			74.84
MOTA	508	CA			895		14.865	27.593	-7.214	1.00	73.98
HIOM							•				

ATOM	509	С	ARG :	В	895	14.001	26.742	-6.281	1.00 74.16
ATOM	510	0	ARG :		895	12.911	27.249	-5.967	1.00 74.67
ATOM	511	CB	ARG :	В	895	16.262	27.053	-7.367	1.00 74.14
ATOM	512	N	GLY :	В	896	14.429	25.597	-5.769	1.00 73.62
MOTA	513	CA	GLY :	В	896	13.554	24.843	-4.878	1.00 74.58
ATOM	514	С	GLY :	В	896	13.801	24.946	-3.383	1.00 75.31
MOTA	515	0	GLY :	В	896	13.362	24.085	-2.599	1.00 74.62
ATOM	516	N	TYR I	В	897	14.568	25.958	-2.952	1.00 75.55
ATOM	517	CA	TYR I	В	897	14.937	26.107	-1.551	1.00 75.78
ATOM	518	C	TYR I	В	897	14.498	27.408	-0.882	1.00 73.41
ATOM	519	0	TYR I	В	897	14.296	28.420	-1.548	1.00 73.50
ATOM	520	CB	TYR I	В	897	16.466	26.038	-1.444	1.00 78.25
MOTA	521	CG	TYR I	В	897	17.225	24.811	-1.836	1.00 80.53
ATOM	522	CD1	TYR I		897	17.259	24.356	-3.145	1.00 81.37
ATOM	523	CD2	TYR I		897	17.982	24.114	-0.898	1.00 81.11
ATOM	524	CE1	TYR I		897	17.983	23.232	-3.498	1.00 82.95
ATOM	525	CE2	TYR I		897	18.712	22.994	-1.247	1.00 82.00
ATOM	526	CZ	TYR I		897	18.723	22.542	-2.554	1.00 82.42
ATOM	527	N	LEU I		898	14.434	27.417	0.450	1.00 70.37
ATOM	528	CA	LEU I		898	14.132	28.667	1.172	1.00 68.25
ATOM	529	C	LEU I		898	15.407	29.218	1.794	1.00 66.94
	530	0	LEU I		898	16.271	28.530	2.340	1.00 67.22
ATOM	531	CB	LEU I		898	12.957	28.443	2.089	1.00 67.63
ATOM					898	12.937	28.839	3.549	1.00 66.92
ATOM	532	CG			898	11.612	29.212	4.063	1.00 67.30
ATOM	533							4.393	1.00 67.72
ATOM	534	CD2	LEU I			13.492	27.667		1.00 65.23
ATOM	535	N	TYR I			15.648	30.512	1.585	
MOTA	536	CA	TYR I			16.871	31.191	2.019	1.00 61.95
ATOM	537	C	TYR I			16.601	32.001	3.262	1.00 60.81
ATOM	538	0	TYR I			15.646	32.797	3.247	1.00 61.40
ATOM	539	CB	TYR I		899	17.291	31.923	0.733	1.00 62.33
MOTA	540	CG	TYR I		899	17.999	31.028	-0.267	1.00 63.29
MOTA	541	CD1	TYR I		899	17.347	30.060	-1.018	1.00 63.92
MOTA	542	CD2	TYR I	В	899	19.373	31.154	-0.439	1.00 63.86
MOTA	543	CE1	TYR I	В	899	18.025	29.235	-1.897	1.00 64.75
MOTA	544	CE2	TYR I	В	899	20.078	30.345	-1.317	1.00 64.65
ATOM	545	CZ	TYR I	В	899	19.395	29.384	-2.041	1.00 65.94
ATOM	546	oh	TYR I	В	899	20.089	28.577	-2.918	1.00 66.41
ATOM	547	N	LEU E	В	900	17.269	31.750	4.397	1.00 56.58
MOTA	548	CA	LEU I	В	900	17.006	32.506	5.625	1.00 52.46
ATOM	549	С	LEU 1	В	900	18.209	33.421	5.892	1.00 50.69
MOTA	550.	'o	LEU I	В	900	19.359	33.002	5.834	1.00 49.63
MOTA	551	CB	LEU I	В	900	16.742	31.664	6.859	1.00 52.94
ATOM	552	CG	LEU I	В	900	15.786	30.472	6.845	1.00 53.46
ATOM	553		LEU I	В	900	16.449	29.204	6.312	1.00 53.02
ATOM	554	CD2	LEU I	В	900	15.211	30.153	8.224	1.00 53.76
ATOM	555	N	ALA I			17.923	34.696	6.093	1.00 48.07
ATOM	556	CA	ALA I			18.972	35.699	6.337	1.00 44.87
ATOM	557	C	ALA I			18.893	36.119	7.800	1.00 42.43
ATOM	558	0	ALA I			17.895	36.689	8.253	1.00 41.24
ATOM	559	CB	ALA I			18.777	36.899	5.429	1.00 43.13
ATOM	560	N	ILE :			19.919	35.717	8.532	1.00 42.59
MOTA	561	CA	ILE I			20.012	35.929	9.979	1.00 40.02
ATOM	562	CA	ILE I			20.926	37.088	10.334	1.00 40.16
		0	ILE I			21.844	37.413	9.586	1.00 41.22
ATOM	563 564	CB	ILE :			20.561	34.648	10.635	1.00 39.22
ATOM						19.781	33.405	10.190	1.00 41.67
ATOM	565	CG1	ILE 1	ø	302	17./01	23.402	10.150	T.00 47.07

ATOM	566	CG2	ILE B	902	20.538	34.742	12.152	1.00	38.02
ATOM	567	CD1	ILE B	902	18.288	33.542	10.392	1.00	44.70
MCTA	568	N	GLU B	903	20.702	37.692	11.498	1.00	38.24
MOTA	569	CA	GLU B	903	21.487	38.756	12.058	1.00	36.51
ATOM	570	C	GLU B	903	22.929	38.231	12.121	1.00	37.45
MOTA	571	0	GLU B	903	23.188	37.096	12.569	1.00	37.05
ATOM	572	CB	GLU 3	903	20.984	39.024	13.484	1.00	36.53
ATOM	573	CG	GLU B	903	21.936	39.865	14.343	1.00	39.44
ATOM	574	CD	GLU B	903	21.384	40.070	15.735	1.00	40.57
ATOM	575	OE1	GLU B	903	21.848	40.909	16.534	1.00	39.27
ATOM	576	OE2	GLU B	903	20.387	39.361	16.065	1.00	39.59
ATOM	577	N	TYR B	904	23.817	39.039	li.558	1.00	36.26
ATOM	578	CA.	TYR B	904	25.236	38.729	11.507	1.00	38.11
ATOM	579	C	TYR B	904	25.928	39.016	12.842	1.00	36.13
ATOM	580	0	TYR B	904	25.810	40.085	13.447	1.00	36.04
ATOM	581	СВ	TYR B	904	25.870	39.456	10.293	1.00	38.03
	582	CG	TYP B	904	27.340	39.121	10.159	1.00	39.56
MOTA	583	CD1	TYR B	904	27.790	37.827	9.900	1.00	40.02
ATOM	584	CD2	TYR B	904	28.296	40.122	10.364	1.00	39.80
ATOM	585	CE1	TYR B	904	29.154	37.532	9.822	1.00	40.07
ATOM				904	29.641	39.846	10.258	1.00	39.30
ATOM	586	CE2	TYR B.		30.043	38.571	9.994	1.00	38.67
ATOM	587	CZ		904	31.395	38.341	9.943		42.02
MOTA	588	OH	TYR B ALA B	905	26.565	37.994	13.427		33.70
ATOM	589	N			27.351	38.148	14.629		34.04
MOTA	590	CA	ALA B	905	28.807	38.331	14.173		34.59
	591	C	ALA B	905		37.413	13.631		34.61
ATOM	592	0	ALA B	905	29.422 27.272	36.924	15.544		31.52
MOTA	593	CB	ALA B	905	29.362	39.523	14.313	1.00	37.23
MOTA	594	N	PRO B	906		39.735	13.790	1.00	36.90
ATOM	595	CA	PRO B	906	30.702	39.733	14.554	1.00	37.30
ATOM	596	C	PRO B	906	31.854	39.226	14.071	1.00	37.05
MOTA	597	0	PRO B	906	32.998	41.248	13.601	1.00	38.72
MOTA	598	CB	PRO B	906	30.757	41.840	14.378	1.00	39.46
ATOM	599	CG	PRO B	906	29.641	40.738	14.854	1.00	
MOTA	600	CD	PRO E	906	28.736		15.767		35.76
ATOM	601	N	HIS B	907	31.720	38.652	16.515		34.45
ATOM	602	CA	HIS B	907	32.810	38.072	16.532		33.29
ATOM	603	C	HIS B	907	32.768	36.551	17.429	1.00	36.68
ATOM	604	0	HIS B	907	33.420	36.044	17.429	1.00	32.90
ATOM	605	ÇВ	HIS B	907	32.793	38.614	17.966		33.20
MOTA	606	'CG	HIS B		32.706	40.082			35.20
MOTA	607		HIS B		33.802	40.846	17.590		31.98
MOTA	608		HIS B		31.727	40.985	18.200		33.06
ATOM	609		HIS B		33.497	42.128	17.610		33.02
MOTA	610	NE2	HIS B		32.241	42.248	18.017		
MOTA	611	N	GLY B		32.021	35.804	15.757		30.48
ATOM	612	CA	GLY B	908	32.010	34.380	15.765		32.68
ATOM	613	C	GLY B		31.084	33.774	16.838		31.58
MOTA	614	0	GLY B	908	30.218	34.407	17.431		28.30
MOTA	615	N	ASN B		31.300	32.477	17.068		27.49
ATOM	616	CA	ASN B	909	30.550	31.793	18.108		24.09
ATOM	617	С	ASN B	909	31.321	32.036	19.407		25.93
ATOM	618	0	ASN B	909	32.485	32.498	19.367		28.49
ATOM	619	CB	ASN B		30.241	30.343	17.894		26.09
MOTA	620	CG	ASN B		31.306	29.286	17.946		28.79
ATOM	621		ASN B		31.088	28.055	17.867		30.89
ATOM	622		ASN B		32.526	29.772	18.045	1.00	25.36
		_							

ATOM	623	N	LEU E		30.721	31.746	20.545	1.00 23.98
ATOM	624	CA	LEU E		31.369	32.013	21.809	1.00 24.27
MOTA	625	C	LEU B		32.494	31.025	22.149	1.00 28.34
ATOM	626	0	LEU B		33.475	31.482	22.740	1.00 28.22
ATOM	627	CB	LEU B		30.268	31.885	22.850	1.00 22.33
ATOM	628	CG	LEU B	910	30.701	31.957	24.327	1.00 23.69
ATOM	629	CD1			31.394	33.213	24.683	1.00 22.29
MOTA	630	CD2	LEU B	910	29.417	31.790	25.166	1.00 21.67
ATOM	631	N	LEU B	911	32.290	29.750	21.805	1.00 27.95
MOTA	632	CA	LEU B	911	33.380	28.801	22.034	1.00 25.73
MOTA	633	C	LEU B	911	34.638	29.295	21.337	1.00 27.49
ATOM	634	0	LEU B	911	35.676	29.359	22.043	1.00 26.42
MOTA:	635	CB	LEU B	911	33.003	27.396	21.533	1.00 27.05
ATOM	636	CG	LEU B	911	34.062	26.292	21.771	1.00 25.84
ATOM	637	· CD1	LEU B	911	34.319	26.301	23.302	1.00 20.85
ATOM	638	CD2	LEU B	911	33.505	24.899	21.410	1.00 23.88
ATOM	639	N	ASP B	912	34.686	29.509	20.034	1.00 27.48
ATOM	640	CA	ASP B	912	35.832	30.077	19.341	1.00 30.26
ATOM	641	С	ASP B	912	36.323	31.426	19.869	1.00 31.88
ATOM	642	0	ASP B		37.540	31.676	19.938	1.00 29.65
ATOM	643	CB	ASP B		35.557	30.313	17.848	1.00 30.57
ATOM	644	CG	ASP B		35.339	29.102	16.995	1.00 34.53
ATOM	645		ASP B		34.882	29.274	15.841	1.00 37.84
ATOM	646	OD2	ASP B		35.663	27.975	17.416	1.00 37.21
ATOM	647	N	PHE B		35.440	32.298	20.355	1.00 37.21
MOTA	648	CA	PHE B		35.763	33.564	20.967	1.00 31.70
ATOM	649	C	PHE B		36.507	33.319	22.291	1.00 30.28
ATOM	650	0	PHE B		37.612	33.931	22.463	1.00 30.28
ATOM	651	CB	PHE B		34.591	34.492	21.208	1.00 27.45
	652	CG	PHE B		34.831	35.958	21.208	1.00 27.43
ATOM	653	CD1	PHE B	913		36.840	20.461	1.00 29.93
ATOM	654	CD1	PHE B	913	35.060		20.461	1.00 28.75
ATOM					34.910	36.415		
ATOM	655	CE1	PHE B	913	35.313	38.202	20.715	1.00 28.06
ATOM	656	CE2	PHE B		35.188	37.763	23.068	1.00 29.46
ATOM	657	CZ	PHE B	913	35.379	38.643	22.029	1.00 28.47
ATOM	658	N	LEU B		36.054	32.404	23.151	1.00 26.55
ATOM	659	CA	LEU B		36.844	32.188	24.365	1.00 31.20
ATOM	660	C	LEU B	914	38.154	31.425	24.075	1.00 30.42
ATOM	661	0	LEU B	914	39.065	31.539	24.890	1.00 29.64
ATOM	662	CB	LEU B		36.133	31.379	25.440	1.00 32.99
ATOM	663	CG			34.718			1.00 32.39
ATOM			LEU B			30.794	26.190	1.00 31.43
ATOM	665	CD2	LEU B		34.981	32.805	27.062	1.00 27.44
MOTA	666	N	ARG B	915	38.196	30.595	23.029	1.00 28.43
ATOM	667	CA	ARG B	915	39.414	29.824	22.755	1.00 29.31
ATOM	668	C	ARG B	915	40.498	30.753	22.149	1.00 32.00
ATOM	669	0	ARG B	915	41.692	30.583	22.478	1.00 33.32
ATOM	670	CB	ARG B	915	39.157	28.572	21.911	1.00 25.22
ATOM	671	CG	ARG B	915	38.723	27.348	22.800	1.00 24.37
ATOM	672	CD	ARG B	915	38.161	26.209	21.957	1.00 24.35
ATOM	673	NE	ARG B		37.642	25.132	22.889	1.00 25.89
ATOM	674	CZ	ARG B		37.100		22.346	1.00 25.09
ATOM	675		ARG B		37.054	23.901	21.016	1.00 24.19
ATOM	676	NH2	ARG B			23.111	23.194	1.00 23.94
ATOM	677	N	LYS B		40.164	31.751	21.372	1.00 34.12
ATOM	678	CA	LYS B			32.736	20.705	1.00 35.63
ATOM	679	C	LYS B		41.664	33.693	21.683	1.00 36.01
ATON	013	_	ب بید	2 + 0	47.004	درن. دد		2.00 30.01

									7 00	2001
MOTA	680	0	LYS			42.762	34.252.			36.61
ATOM	681	CB	LYS		916	40.287	33.552	19.615		34.37
ATOM	682	CG	LYS		916	40.129	32.825	18.298		42.16
MOTA	683	CD	LYS	В	916	39.443	33.575	17.172		44.43
MOTA	684	CE			916	38.756	32.732	16.114		47.47
ATOM	685	NZ	LYS	В	916	37.371	33.261	15.814		51.77
ATOM	686	N	SER	В	917	40.991	33.857	22.786	1.00	33.46
ATOM	687	CA	SER	В	917	41.419	34.647	23.937	1.00	32.01
ATOM	688	С	SER		917	42.545	34.012	24.721	1.00	32.62
MOTA	689	0	SER		917	43.188	34.725	25.520	1.00	27.96
ATOM	690	CB	SER			40.117	34.800	24.689	1.00	31.09
ATOM	691	OG	SER		917	40.057	34.497	26.054	1.00	33.24
	692	N	ARG		918	42.926	32.735	24.574	1.00	33.26
MOTA			ARG		918	43.911	32.087	25.401		29.88
MOTA	693	CA			918	45.341	32.471	24.927		33.33
MCTA	694	C	ARG				31.782	24.226		34.36
ATOM	695	0	ARG		918	46.072	30.570	25.487		30.84
MOTA	696	CB	ARG		918	43.750				31.53
MOTA	697	·CG	ARG		918	42.350	30.118	25.969		
ATOM	698	CD	ARG		918	42.301	28.655	26.234		31.59
MOTA	699	NE	ARG	В	918	41.373	27.771	26.776		30.40
ATOM	700	CZ	ARG	В	918	41.314	26.510	27.146		27.78
ATOM	701	NHl	ARG	В	918	42.579	25.901	27.032		24.30
ATOM	702	NH2	ARG	В	918	40.359	25.804	27.635		24.57
ATOM	703	N	VAL	В	919	45.792	33.639	25.388	1.00	29.19
ATOM	704	CA	VAL		919	46.914	34.362	24.991	1.00	31.89
ATOM	705	C	VAL		919	48.324	33.779	25.390	1.00	33.48
MOTA	706	0	VAL		919	49.318	34.428	25.239	1.00	42.15
ATOM	707	CB	VAL		919	47.064	35.854	25.366		30.88
			VAL		919	46.027	36.669	24.602		34.82
MOTA	708		LAV		919	46.881	36.061	26.852		31.88
ATOM	709	CG2	LEU		920	48.272	32.609	25.986		31.42
ATOM	710	N					31.803	26.310		32.43
MOTA	711	CA	LEU			49.386				33.59
MCTA	712	C	LEU		920	49.646	30.949	25.049		34.43
MOTA	713	0	LEU		920	50.874	30.754	24.757		26.98
ATOM	714	CB	LEU		920	49.363	30.892	27.516		
MOTA	715	CG	LEU	В	920	49.473	31.646	28.827		28.45
ATOM	716	CD1	LEU		920	49.060	30.712	29.911		24.11
ATOM	717	CD2	LEU	В	920	50.899	32.259	29.084		24.38
ATOM	718	N	GLU	В	921	48.560	30.587	24.414		33.03
ATOM	719	CA	GLU	В	921	48.691	29.839	23.163		34.88
ATOM	720	C,	GLU	В	921	48.686	30.741	21.960		36.44
ATOM	721	0	GLU	В	921	49.468	30.532	21.028	1.00	37.60
MOTA	722	CB	GLU			47.526	28.797	23.034	1.00	36.48
ATOM	723	ĊG	GLU			47.367	28.228	21.636	1.00	39.16
ATOM	724	CD	GLU			46.213	27.255	21.414	1.00	43.37
			GLU			45.489	26.854	22.357		41.90
ATOM	725	OE1				46.044	26.848	20.222		42.19
MOTA	726						31.738	21.886		33.22
ATOM	727	N			922	47.772		20.652		33.16
MOTA	728	CA	THR			47.684	32.482			33.32
ATOM	729	С			922	48.566	33.711	20.605		33.82
MOTA	730	0			922	48.787	34.124	19.452		
MOTA	731	CB			922	46.212	32.897	20.346		33.96
MOTA	732	OG1			922	45.814	33.744	21.415		33.38
MOTA	733	CG2	THR	В	922	45.288	31.667	20.363		35.79
ATOM	734	N	ASP	В	923	49.134	34.252	21.645		34.17
ATOM	735	CA.			923	50.099	35.410	21.445		33.90
ATOM	736	C			923	50.855	35.464	22.736	1.00	31.06
			_							

		\sim	ASP B	923	50.593	36.342	23.567	1.00 27.46
ATOM	737	0		923	49.307	36.710	21.268	1.00 37.04
MOTA	738	CB		923	50.153	37.937	20.960	1.00 41.38
ATOM	739	CG		923 923	49.577	39.035	20.699	1.00 39.51
ATOM	740				51.412	37.813	20.986	1.00 38.37
MOTA	741			923	51.732	34.505	23.057	1.00 30.87
ATOM	742	N		924		34.348	24.339	1.00 29.10
MOTA	743	CA		924	52.373		24.339	1.00 30.48
ATOM	744	С		924	53.219	35.487		1.00 36.16
ATOM	745	С		924	53.451	35.658	26.081	1.00 30.10
ATOM	746	CB		924	53.266	33.088	24.160	1.00 29.12
ATOM	747	CG		924	53.404	32.976	22.696	1.00 30.23
ATOM	748	CD		924	52.076	33.382	22.137	
MOTA	749	N		925	53.613	36.368	24.008	
ATOM	750	CA		925	54.366	37.598	24.150	1.00 32.47
ATOM	751	C		925	53.543	38.653	24.869	1.00 29.57
ATOM	752	0	ALA B	925	53.787	39.195	25.935	1.00 30.49
ATOM	753	CB	ALA B	925	54.773	38.221	22.799	1.00 31.57
ATOM	754	N	PHE B	926	52.319	38.825	24.295	1.00 29.73
ATOM	755	CA	PHE B	926	51.269	39.710	24.838	1.00 29.93
ATOM	756	С	PHE B	926	51.056	39.489	26.342	1.00 26.49
ATOM	757	0	PHE B	926	50.877	40.391	27.189	1.00 33.60
ATOM	758	CB	PHE B	926	49.990	39.510	24.004	1.00 33.75
ATOM	759	CG	PHE B	926	48.853	40.282	24.610	1.00 35.41
ATOM	760	CD1		926	48.530	41.563	24.201	1.00 35.32
ATOM	761	CD2		926	48.148	39.708	25.665	1.00 35.43
ATOM	762	CEI		926	47.510	42.237	24.860	1.00 37.62
	763	CE2	PHE B	926	47.135	40.390	26.312	1.00 40.82
ATOM	764	CZ	PHE B	926	46.803	41.649	25.884	1.00 37.83
ATOM	765	N N	ALA B	927	50.917	38.202	26.616	1.00 30.01
ATOM		CA	ALA B	927	50.632	37.486	27.815	1.00 28.56
ATOM	766	CA	ALA B	927	51.656	37.637	28.900	1.00 29.51
ATOM	767		ALA B	927	51.289	37.839	30.056	1.00 30.25
ATOM	768	0			50.513	35.973	27.565	1.00 32.88
ATOM	769	CB		927	52.948	37.452	28.535	1.00 31.84
ATOM	770	N	ILE B	928 .	54.019	37.696	29.494	1.00 33.06
MOTA	771	CA	ILE B	928		39.221	29.662	1.00 31.39
ATOM	772	C	ILE B	928	54.111	39.681	30.804	1.00 32.12
MOTA	773	0		928	54.206		29.050	1.00 34.86
ATOM	774	CB	ILE B	928	55.354	37.042	30.077	1.00 36.35
MOTA	775	CG1	ILE B	928	56.448	37.311		1.00 36.48
ATOM	776	CG2	ILE B	928	55.833	37.483	27.689	1.00 40.48
MOTA	777	CD1	ILE B	928	56.235	36.372	31.274	
MOTA	778	N	ALA B		53.998	40.026	28.623	1.00 32.07 1.00 35.07
MOTA	779	CA	ALA B		54.114	41.493	28.884	
P.TOM	780	C	ALA B	929	52.935	42.038	29.650	1.00 32.88
MOTA	781	0	ALA B	929	53.152	42.885	30.515	1.00 32.96
MOTA	782	CB	ALA B	929	54.276	42.286	27.584	1.00 38.44
ATOM	783	N	ASN B	930	51.737	41.363	29.538	1.00 32.01
ATOM	784	CA	ASN B	930	50.624	41.923	30.307	1.00 32.62
ATOM	785	С	ASN B	930	50.458	41.157	31.604	1.00 32.33
MOTA	786	0	ASN B		49.549	41.509	32.315	1.00 30.28
ATOM	787	CB	ASN B		49.305	41.975	29.564	1.00 30.21
ATOM	788	CG	ASN B		49.462	43.166	28.612	1.00 34.16
	789		ASN B		49.104	44.224	29.139	1.00 35.09
ATOM	790	ND2			49.997		27.434	1.00 33.29
ATOM			SER B		51.284		31.740	1.00 31.40
ATOM	791	N	SER B		51.064		32.863	1.00 34.73
ATOM	792	CA			49.616		32.909	1.00 31.81
MOTA	793	С	SER B	ココエ	± J. □ 1 □	J0.04/		

ATOM	794	0	SER B	931	48.946	38.522	33.960	1.00 28.51
ATOM	795	CB	SER B	931	51.539	39.966	34.083	1.00 36.38
ATOM	796	OG	SER B	931	51.372	39.137	35.239	1.00 44.81
ATOM	797	N		932	49.066	38.367	31.708	1.00 31.32
ATOM	798	CA		932	47.681	37.822	31.741	1.00 33.33
ATOM	799	C		932	47.532	36.490	31.036	1.00 31.10
ATOM	800	0		932	48.276	36.141	30.127	1.00 30.68
ATOM	801	CB		932	46.678	38.870	31.263	1.00 33.87
ATOM	802	OG1		932	45.316	38.426	31.576	1.00 33.49
	803	CG2		932	46.692	39.109	29.757	1.00 33.71
ATOM	804	N		933	46.529	35.668	31.389	1.00 31.61
ATOM ATOM	805	CA		933	46.226	34.431	30.705	1.00 29.07
	806	C		933	45.091	34.589	29.655	1.00 30.40
MOTA				933	44.908	33.676	28.853	1.00 28.66
ATOM	807	O CB		933	45.737	33.378	31.703	1.00 27.24
ATOM	808	CB		934	44.450	35.779	29.587	1.00 26.77
ATOM	809	N			43.413	36.013	28.587	1.00 28.62
MOTA	810	CA	SER B	934	43.413	37.464	28.195	1.00 27.31
ATOM	811	C	SER B	934		38.417	28.980	1.00 27.55
ATOM	812	0	-	934	43.323	35.417	29.162	1.00 26.81
ATOM	813	CB	SER B	934	42.064		28.323	1.00 27.56
ATOM	814	OG	-	934	40.981	35.744		1.00 27.99
ATOM	815	И		935	42.820	37.745	26.944	1.00 27.33
MOTA	816	CA	•	935	42,439	39.110	26.578	
ATOM	817	C	THR B	935	41.160	39.524	27.282	
MOTA	818	0		935	40.842	40.718	27.320	1.00 33.62
ATOM	819	CB		935	42.242	39.350	25.075	
MOTA	820	OG1		935	41.506	38.262	24.505	
ATOM	821	CG2		935	43.525	39.478	24.287	1.00 30.80
MOTA	822	N	LEU B	936	40.343	38.579	27.771	1.00 30.00
MOTA	823	CA	LEU B	936	39.018	38.902	28.323	1.00 31.43
MOTA	824	С	LEU B	936	39.137	39.093	29.820	1.00 23.86
MOTA	825	0	LEU B	936	39.947	38.339	30.364 28.127	1.00 25.03
MOTA	826	CB	LEU B	936	38.171	37.634		1.00 33.21
MOTA	827	CG	LEU B	936	37.312	37.342	26.944	1.00 42.04
MOTA	828	CD1	LEU B	936	37.602	38.053	25.641	1.00 42.04
MOTA	829	CD2	LEU B	936	37.181	35.833	26.689	
MOTA	830	N	SER B	937	38.381	39.888	30.508	
MOTA	831	CA	SER B	937	38.427	39.976	31.975	
MOTA	832	C	SER B	937	37.373	39.107	32.612	
MOTA	833	0	SER B		36.444	38.641	31.960	1.00 29.26 1.00 28.29
ATOM	834	СВ	SER B		38.164	41.408	32.478	
MOTA	835	ÓG	SER B		36.753	41.746	32.275	1.00 26.99
MOTA	836	N	SER B		37.382	38.946	33.936	1.00 23.75
ATOM	837	CA	SER B		36.444	38.301	34.738	1.00 25.14
MOTA	838	С	SER B		34.982	38.781	34.508	1.00 29.67
MOTA	839	0	SER B		33.973	38.052	34.324	1.00 28.12
ATOM	840	CB	SER B		36.842	38.693	36.180	1.00 25.42
MOTA	841	OG	SER B		35.935	37.879	36.971	1.00 31.24
MOTA	842	N	GLN B		34.834	40.109	34.487	1.00 27.93
ATOM	843	CA	GLN B		33.576	40.797	34.290	1.00 30.16
MOTA	844	С	GLN B		33.036	40.463	32.911	1.00 26.11
ATOM	845	0	GLN B	939	31.840	40.271	32.714	1.00 28.65
ATOM	846	CB	GLN B		33.784	42.330	34.312	1.00 33.19
MOTA	847	CG	GLN B	939	33.442	43.229	35.457	1.00 40.59
MOTA	848	CD	GLN B		32.130	43.133	36.180	1.00 39.70
MOTA	849		GLN B		31.005	43.468	35.831	1.00 47.06
ATOM	850	NE2	GLN B	939	32.185	42.646	37.424	1.00 42.39

							050	
ATOM	251	N	GLN B	940	33.893	40.437	31.879	1.00 28.10
MOTA	852	CA	GLN B	940	33.294	39.992	30.590	1.00 26.42
ATOM	853	C	GLN B	940	32.792	38.510	30.608	1.00 27.93
ATOM	854	0	GLN B	940	31.699	38.213	30.003	1.00 -24.42
ATOM ·	855	CB	GLN B	940	34.237	40.315	29.474	1.00 28.32
ATOM	856	CG	GLN B	940	33.821	39.728	28.138	1.00 30.12
ATOM	857	CD	GLN B	940	32.714	40.351	27.341	1.00 32.84
		OE1	GLN B	940	32.980	40.952	26.293	1.00 32.97
ATOM	858					40.215	27.742	1.00 32.92
ATOM	859	NE2	GLN B	940	31.444			1.00 32.32
ATOM	860	N	LEU B	941	33.469	37.651	31.370	
ATOM	861	CA	LEU B	941	32.909	36.258	31.443	1.00 28.19
ATOM	862	С	LEU B	941	31.589	36.301	32.198	1.00 29.57
MOTA	863	0	LEU B	941	30.678	35.590	31.730	1.00 30.43
MOTA	864	CB	LEU B	941	33.906	35.296	32.049	1.00 25.27
ATOM	865	CG	LEU B	941	35.315	35.323	31.415	1.00 32.42
ATOM	866	CD1	LEU B	941	36.323	34.485	32.227	1.00 31.29
ATOM	867	CD2	LEU B	941	35.341	34.767	30.010	1.00 31.88
	868	N	LEU B	942	31.450	37.064	33.293	1.00 30.31
ATOM			LEU B	942	30.167	37.145	33.968	1.00 32.16
ATOM	869	CA					33.115	1.00 31.83
MOTA	870	C	LEU B	942	29.036	37.749		
ATOM	871	0	LEU B	942	27.922	37.185	33.174	1.00 33.88
MOTA	872	CB	LEU B	942	30.243	37.957	35.236	1.00 31.72
ATOM	873	CG	LEU B	942	31.083	37.434	36.382	1.00 33.04
MOTA	874	CD1	LEU B	942	31.284	38.550	37.417	1.00 33.30
ATOM	875	CD2	LEU B	942	30.573	36.187	36.999	1.00 35.60
ATOM	876	N	HIS B	943	29.333	38.722	32.292	1.00 30.14
ATOM	877	CA	HIS B	943	28.489	39.305	31.307	1.00 32.55
ATOM	878	C	HIS B	943.	27.988	38.261	30.293	1.00 33.04
ATOM	879	0	HIS B	943	26.773	38.281	29.997	1.00 29.13
			HIS B	943	29.051	40.525	30.513	1.00 31.92
ATOM	880	CB			28.919	41.826	31.219	1.00 34.62
ATOM	881	CG	HIS B	943			31.481	1.00 36.03
MOTA	882	ND1	HIS B	943	29.954	42.688		
ATOM	883	CD2	HIS B	943	27.832	42.442	31.778	1.00 38.05
MOTA	884	CE1	HIS B	943	29.547	43.737	32.168	1.00 35.60
ATOM	885	NE2	HIS B	943	28.245	43.626	32.354	1.00 37.32
ATOM	886	11	PHE B	944	28.860	37.419	29.710	1.00 30.43
ATOM	887	CA	PHE B	944	28.322	36.430	28.793	1.00 30.42
ATOM	888	С	PHE B	944	27.361	35.447	29.480	1.00 28.35
ATOM	889	0	PHE B	944	26.297	35.095	28.948	1.00 27.55
ATOM	890	CB	PHE B	944	29.414	35.601	28.129	1.00 29.40
	891	CG	PHE B	944	30.259	36.326	27.143	1.00 28.28
ATOM					31.639	36.118	27.152	1.00 28.85
ATOM	892		PHE B				26.200	1.00 27.36
MOTA	893		PHE B		29.764	37.193		1.00 31.22
MOTA	894		PHE B		32.429	36.783	26.230	
MOTA	895	CE2			30.528	37.861	25.279	1.00 30.76
ATOM	896	CZ	PHE B	944	31.863	37.640	25.305	1.00 29,54
MOTA	897	N	ALA B	945	27.661	35.064	30.707	1.00 28.20
ATOM	898	CA	ALA B	945	26.737	34.232	31.526	1.00 27.06
ATOM	899	С	ALA B	945	25.389	34.896	31.781	1.00 28.16
ATOM	900	0	ALA B		24.305	34.272	31.603	1.00 29.72
MOTA	901	CB	ALA B		27.424	33.982	32.882	1.00 22.24
	902	N	ALA B		25.348	36.185	32.154	1.00 28.40
ATOM					24.058	36.906	32.424	1.00 26.80
MOTA	903	CA	ALA B				31.128	1.00 26.73
ATOM	904	C	ALA B		23.326	37.071		1.00 23.75
MOTA	905	0	ALA B		22.095	36.826	30.960	
MOTA	906	CB	ALA B		24.422	38.268	33.049	
MOTA	907	N	ASP B	947	24.021	37.501	30.077	1.00 25.12

ATOM	908	CA	ASP B		.361	37.562	28.793		27.64 30.15
ATOM	909	С		947	.653	36.217	28.522		32.77
MOTA	910	0		947	423	36.331	28.285		32.77
ATOM	911	CB		947	.158	37.947	27.594		37.39
MOTA	912	CG	ASP B	947	798	39.318	27.538		38.95
ATOM	913	ODl	ASP B	947	.327	40.283	28.209		38.99
ATOM	914	OD2	ASP B	947	8.817	39.462	26.816		24.93
ATOM	915	N	VAL B	548	.225	35.043	28.511		26.37
ATOM	916	CA	VAL B	948	2.519	33.824	28.235		26.38
ATOM	917	С	VAL B	948	.319	33.657	29.150 28.688		28.00
ATOM	918	0	VAL B	948).273	33.241	28.375		23.63
MOTA	919	CB	VAL B	948	3.423	32.575			28.41
ATOM	920	CG1	AYP B	948	2.711	31.247	28.218 27.306		24.29
ATOM	921	CG2	VAL B	948	1.500	32.621	30.472		25.90
MOTA	922	N	ALA B	949	1.496	33.853	30.412		24.76
ATOM	923	CA	ALA B	949	1.489	33.633			29.82
MOTA	924	С	ALA B	949	9.254	34.514	31.245		29.12
MOTA	925	0	ALA B	949	3.125	33.995	31.478		21.23
ATOM	926	CB	ALA B	949	1.105	33.945	32.833 30.814	1.00	29.05
ATOM	927	N	ARG B	950	9.483	35.753	30.814	1.00	
MOTA	928	CA	ARG B	950	3.417	36.711	29.315		30.35
MOTA	929	С	ARG B	950	7.681	36.245			32.30
MOTA	930	0	ARG B	950	5.454	36.156	29.291 30.331		29.04
MOTA	931	CB	ARG B	950	8.943	38.135	30.331		29.74
MOTA	932	CG	ARG B	950	7.857	39.209 40.540	29.840		33.11
MOTA	933	CD	ARG B	950	8.484		30.623		36.26
ATOM	934	NE	ARG B	950	9.702	40.789	30.823		36.47
MOTA	935	CZ	ARG B	950	0.973	41.064	31.276		34.51
MOTA	936	NH1		950	1.905	41.281	29.088		37.31
MOTA	937	NH2		950	1.378	41.083	28.306		29.52
MOTA	938	N	GLY B	951	8.419	35.817 35.222	27.135		
MOTA	939	CA	GLY B	951	7.811	34.005	27.518	1.00	31.96
MOTA	940	С	GLY B	951	6.981	34.005	27.083	1.00	30.42
ATOM	941	0	GLY B		5.802	33.082	28.335	1.00	31.58
MOTA	942	N	MET B	952	7.505	33.062		1.00	31.52
ATOM	943	CA	MET B	952	6.833	32.060		1.00	
ATOM	944	С	MET B		5.593	31.277		1.00	
ATOM	945	0	MET B		4.692	30.817		1.00	
MOTA	946	CB	MET B		7.728 8.601	29.963		1.00	
MOTA	947	CG	MET B			29.220	0-6		28.47
ATOM	948	ŞD	MET B		7.803	28.118			24.09
ATOM	949	CE	MET B			32.991			33.12
ATOM	950	N	ASP B		.5.540 .4.479				35.52
ATOM	951	CA	ASP B						34.51
ATOM	952	C	ASP B		.3.331 .2.167				34.88
MOTA	953	0	ASP B		4.959		_		37.38
ATOM	954	CB	ASP E		3.886				38.60
ATOM	955	CG	ASP B		3.235				38.16
MOTA	956	OD:			13.774				39.51
ATOM	957	OD2			L3.7741				34.22
ATOM	958	N	TYR E		12.764				33.92
MOTA	959	CA							35.03
MOTA	960	C	TYR E		L2.083				33.83
ATOM	961	0	TYR E		10.854				36.04
MOTA	962	CB	TYR E		13.457				40.14
MOTA	963	CG			12.621 11.489				42.51
MOTA	964	CD	1 TYR E	5 754	 LL.407	٠١٠. ا د			

ATOM	965	CD2		954	12.873	36.322	25.202	1.00 40.08 1.00 45.17
MOTA	966	CE1		954	10.587	37.819	25.869	
MOTA	967	CE2		954	12.012	36.762	24.225	
MOTA	968	CZ		954	10.893	37.541	24.548	1.00 45.99
MOTA	969	OH		954	10.043	37.968	23.564	1.00 46.72
MOTA	970	N		955	12.809	33.080	27.399	1.00 34.55
ATOM	971	CA		955	12.388	31.912	26.704	1.00 34.31 1.00 32.95
MOTA	972	C		955	11.690	30.956	27.654	1.00 32.95 1.00 36.79
MOTA	973	0		955	10.537	30.633	27.336	1.00 34.82
MOTA	974	CB		955	13.431	31.053	26.006	1.00 34.82
MOTA	975	CG		955	14.032	31.673	24.757	
MOTA	976			955	15.304	30.976	24.341	1.00 31.55 1.00 32.89
MOTA	977	CD2		955	13.075	31.726	23.592	
MOTA	978	N		956	12.231	30.620	28.798	1.00 33.38 1.00 34.02
ATOM	979	CA		956	11.489	29.672	29.609	1.00 34.02
MOTA	980	С		956	10.214	30.243	30.247	1.00 34.13
MOTA	981	0		956	9.393	29.419	30.652 30.630	1.00 30.24
ATOM	982	CB		956	12.469	29.126		1.00 33.04
ATOM	983	OG		956	12.613	30.134	31.586	1.00 37.17
MOTA	984	N		957	10.032	31.530	30.438	1.00 37.57
MOTA	985	CA		957	8.852	32.137	31.059	1.00 37.37
MOTA	986	C ,		957	7.675	32.048		1.00 36.69
ATOM	987	0	GLN B	957	6.518	31.962	30.443	1.00 39.36
MOTA	988	CB		957	9.101	33.516	31.671	1.00 43.44
MOTA	989	CG	GLN B	957	9.819	33.491	33.028	1.00 47.63
MOTA	990	CD	GLN B	957	10.305	34.801	33.581	1.00 48.94
MOTA	991	OE1	*	957	10.420	35.138	34.789 32.807	1.00 50.75
MOTA	992	NE2	GLN B	957	10.736	35.802	28.792	1.00 30.73
MOTA	993	N	LYS B	958	7.937	31.933	27.696	1.00 37.25
MOTA	994	CA	LYS B	958	7.068	31.649	27.402	1.00 30.30
ATOM	995	C	LYS B	958	6.830	30.166 29.735	26.407	1.00 41.16
MOTA	996	0	LYS B	958	6.248	32.393	26.439	1.00 40.75
MOTA	997	CB	LYS B	958	7.554	33.882	26.545	1.00 42.57
ATOM	998	CG	LYS B	958	7.237	34.666	25.399	1.00 44.52
ATOM	999	CD	LYS B	958	7.853	35.852	25.045	1.00 49.59
MOTA	1000	CE		958	6.950	36.850	24.277	1.00 50.56
MOTA	1001	NZ	_	958	7.755	29.272	28.275	1.00 38.89
ATOM	1002	N	GLN B	959	7.238	27.826	28.340	1.00 39.77
MOTA	1003	CA	GLN B	959	7.191 7.985	27.820	27.246	1.00 36.45
ATOM	1004	C	GLN B		7.889	25.977	26.904	
MOTA	1005	O,	GLN B		5.729	27.298	28.353	1.00 42.27
MOTA	1006	CB	GLN B		5.062	27.230	29.706	1.00 47.02
ATOM	1007	CG	GLN B		3.550	27.270	29.700	1.00 52.44
ATOM	1008	CD	GLN B		2.905	27.301	30.787	1.00 54.64
MOTA	1009	OEl			2.888	27.133	28.539	1.00 51.33
MOTA	1010	NE2			8.932	27.133	26.701	1.00 35.89
MOTA	1011	N	PHE B		9.764	27.490	25.601	1.00 34.12
MOTA	1012	CA	PHE B		11.017	26.758	26.168	1.00 34.10
MOTA	1013	C	PHE B			27.045	27.320	1.00 36.77
MOTA	1014	0	PHE B		11.310	28.752	24.850	1.00 38.30
ATOM	1015	CB	PHE B		10.127	28.732	23.626	1.00 37.64
ATOM	1016	CG	PHE B		9.381		23.577	1.00 37.31
MOTA	1017		PHE B		8.691	30.350	22.534	1.00 37.83
MOTA	1018		PHE B		9.322	28.313	22.334	1.00 37.55
MOTA	1019	CE1			7.970	30.753	21.415	1.00 38.89
MOTA	1020	CE2			8.612	29.930	21.372	1.00 38.28
ATOM	1021	CZ	PHE B	900	7.938	٠٠٠٠٠	22.0,2	

				-	77 701	25.645	25.515	1.00 32.04
ATOM	1022	N	ILE B 96		11.301	24.751	25.913	1.00 35.73
MOTA	1023	CA	ILE B 96		13.444	24.628	24.816	1.00 35.82
ATOM	1024	С	ILE B 96			24.025	23.764	1.00 36.60
ATOM	1025	0	ILE B 96		13.170	23.322	26.185	1.00 37.85
MOTA	1026	CB	ILE E 96		10.658	23.322	27.079	1.00 39.27
ATOM	1027	CGl	ILE B 96			22.443	26.741	1.00 41.20
MOTA	1028	CG2	ILE B 96		12.985	23.505	28.545	1.00 39.36
MOTA	1029	CD1	ILE B 96		10.666	24.959	25.030	1.00 33.60
ATOM	1030	N	HIS B 96		14.751 15.736	24.995	23.975	1.00 31.29
ATOM	1031	C.A.	HIS B 96		16.435	23.705	23.604	1.00 30.82
ATOM	1032	C	HIS B 96		16.433	23.703	22.425	1.00 29.73
ATOM	1033	0	HIS B 96		16.674	26.099	24.539	1.00 31.33
ATOM	1034	CB	HIS B 96		17.589	26.596	23.457	1.00 33.97
MOTA	1035	CG	HIS B 96		17.135	26.808	22.169	1.00 33.33
ATOM	1036	NDl			18.913	26.881	23.499	1.00 33.27
MOTA	1037		HIS B 96		18.200	27.242	21.492	1.00 35.73
ATOM	1038		HIS B 96		19.289	27.260	22.251	1.00 29.66
ATOM	1039	NE2	HIS B 96		16.968	23.006	24.598	1.00 30.47
ATOM	1040	N	ARG B 96		17.746	21.769	24.471	1.00 33.00
ATOM	1041	CA	ARG B 96		19.194	21.923	23.997	1.00 36.77
ATOM	1042	С	ARG B 96		19.889	20.887	24.004	1.00 39.62
ATOM	1043	0	ARG B 96		17.204	20.679	23.551	1.00 32.77
ATOM	1044	CB	ARG B 96		15.815	20.172	23.935	1.00 31.62
ATOM	1045	CG	ARG B 96		15.013	19.404	22.847	1.00 31.53
ATOM	1046	CD	ARG B 96		15.125	19.871	21,521	1.00 33.88
MOTA	1047	NE	ARG B 96		15.726	19.662	20.419	1.00 37.97
ATOM	1048	CZ	ARG B 96		16.808	18.841	20.421	1.00 37.50
MOTA	1049	NH1			15.341	20.285	19.289	1.00 37.35
MOTA	1050	NH2			19.655	23.009	23.398	1.00 36.17
MOTA	1051	N	ASN B 96		20.974	23.021	22.816	1.00 38.69
ATOM	1052	CA	ASN B 96		21.926	24.070	23.372	1.00 36.17
MOTA	1053	C	ASN B 96		22.772	24.513	22.610	1.00 37.84
MOTA	1054	0	ASN B 96		20.798	23.344	21.298	1.00 41.85
MOTA	1055	CB	ASN B 96		20.079	22.173	20.634	1.00 46.78
ATOM	1056	CG			20.319	21.037	21.043	1.00 49.94
ATOM	1057	OD1			19.184	22.496	19.688	1.00 48.13
MOTA	1058	ND2	LEU B 96		21.795	24.534	24.570	1.00 32.14
ATOM	1059	И	LEU B 96		22.546	25.569	25.189	1.00 33.80
ATOM	1060	CA	LEU B 96		23.994	25.064	25.398	1.00 36.44
ATOM	1061	 ⊙	LEU B 9		24.144	24.390	26.421	1.00 40.41
MOTA	1062 1063	CB	LEU B 9		22.086	25.960	26.578	1.00 31.51
ATOM	1064	CG	LEU B 9		20.940	26.943	26.863	1.00 30.06
ATOM	1065		LEU B 9		20.731	26.975	28.363	1.00 26.70
ATOM	1066	CD	LEU B 9	65	21.491	28.298	26.403	1.00 29.20
ATOM	1063	N	ALA B 9		24.919	25.275	24.490	1.00 31.71
MOTA	1067	CA	ALA B 9		26.340	24.956	24.701	1.00 29.62
ATOM	1069	C	ALA B 9		27.144	26.139	24.175	1.00 27.97
ATOM	1070	0	ALA B 9		26.676	26.823	23.232	1.00 24.99
ATOM	1070	CB	ALA B 9		26.737	23.681	23.960	1.00 24.98
MOTA	1071	И	ALA B 9		28.451	26.232	24.492	1.00 28.41
ATOM	1072	CA	ALA B 9		29.236	27.348	23.991	1.00 25.71
ATOM	1074	C	ALA B 9		29.357	27.432	22.481	1.00 28.11
ATOM	1074	0	ALA B 9		29.291	28.561	21.897	1.00 26.71
ATOM	1075	CB	ALA B 9		30.515		24.725	1.00 28.93
ATOM	1075	N	ARG B 9		29.406		21.727	
ATOM		CA			29.407		20.257	1.00 30.09
MOTA	1078	CA	A-10-0				•	

ATOM	1079	С	ARG B	968	28.100	27.003	19.677	1.00	
ATOM	1080	0	ARG B	968	28.131	27.362	18.476		31.68
ATOM	1081	CB	ARG B	968	29.753	25.111	19.610		29.15
ATOM	1082	CG	ARG B	968	28.695	24.044	19.886		31.62
ATOM	1083	CD	ARG B	968	28.941	22.658	19.226		35.47
MOTA	1084	NE	ARG B	968	27.817	21.807	19.703	1.00	
MOTA	1085	CZ	ARG B	968	27.827	21.154	20.851		40.05.
MOTA	1086	NH1	ARG B	968	28.897	21.164	21.633	1.00	
ATOM	1087	NH2	ARG B	968	26.834	20.421	21.322	1.00	
MOTA	1088	N	ASN B	969	26.979	27.025	20.436	1.00	
ATOM	1089	CA	ASN B	969	25.710	27.429	19.810		29.20
ATOM	1090	C	ASN B	969	25.291	28.803	20.297		30.35
ATOM	1091	0	ASN B	969	24.086	29.145	20.204		30.32
ATOM	1092	CB	ASN B	969	24.598	26.375	20.098		25.04
ATOM	1093	CG	ASN B	969	24.914	25.020	19.495		30.26
MOTA	1094	ODl	ASN B	969	25.378	24.869	18.361		32.57
MOTA	1095	ND2	ASN B	969	24.648	23.885	20.172		28.51
ATOM	1096	N	ILE B	970	26.257	29.496	20.910		27.55
MOTA	1097	CA	ILE B	970	26.015	30.841	21.418		28.82
ATOM	1098	C	ILE B	970	26.802	31.795	20.505		29.55
ATOM	1099	0	ILE B	970	27.963	31.487	20.196		27.59
MOTA	1100	CB	ILE B	970	26.412	31.038	22.895	1.00	26.22
ATOM	1101	CG1	ILE B	970	25.618	30.198	23.893		25.70
ATOM	1102	CG2	ILE B	970	26.312	32.536	23.261		21.48
ATOM	1103	CD1	ILE B	970	24.088	30.263	23.734		23.69
MOTA	1104	N	LEU B	971	26.208	32.904	20.028		29.96
MOTA	1105	CA	LEU B	971	26.961	33.826	19.172		30.19
ATOM	1106	С	LEU E	971	27.438	35.090	19.845		31.70
MOTA	1107	0	LEU E	971	26.784	35.584	20.761		33.46
MOTA	1108	CB	LEU E		26.085	34.128	17.930		30.67
MOTA	1109	CG	LEU E		25.855	32.975	16.964	_	34.15
MOTA	1110	CDl	LEU E	971	24.695	33.281	15.982		33.06
MOTA	1111	CD2	LEU E	971	27.122	32.553	16.185		30.70
ATOM	1112	N	VAL E	972	28.541	35.731	19.447		30.83
ATOM	1113	CA	VAL E	972	29.044	36.982	20.037		32.48
MOTA	1114	С	VAL E		28.758	38.104	19.005		30.36
MOTA	1115	0	VAL E		29.405	38.186	17.951		31.08
MOTA	1116	CB	VAL E	972	30.521	36.984	20.420		32.58
ATOM	1117	CG1	VAL E		30.930	38.281	21.136	1.00	34.22
ATOM	1118	CG2	VAL E	972	30.871	35.785	21.333	1.00	30.33
MOTA	1119	N	GLY E	3 973	27.711	38.847	19.310		
MOTA	1120	ďΑ	GLY I		27.207	39.802	18.315		29.88
ATOM	1121	С	GLY I		27.727	41.204	18.479		32.70
MOTA	1122	0	GLY I		28.585	41.451	19.329		31.01
MOTA	1123	N	GLU I	3 974	27.145	42.135	17.747		34.65
ATOM	1124	CA	GLU I		27.522	43.527	17.855		33.72
MOTA	1125	C	GLU I		27.649	43.930	19.302		33.97
ATOM	1126	0	GLU 1		26.870	43.530	20.180		30.31
ATOM	1127	CB		3 974	26.420	44.367	17.187		40.43
ATOM	1128	CG		3 974	26.557	44.283	15.649		48.26
MOTA	1129	CD		3 974	26.317	45.679	15.071		54.12
MOTA	1130		. GLU		25.119		15.074		56.77
MOTA	1131	OE2	GLU		27.258		14.674		56.47
ATOM	1132	N		B 975	28.679		19.612		32.99
MOTA	1133	CA		B 975	28.909		20.945		32.09
MOTA	1134	C		B 975	29.202		21.877		32.69 33.59
MOTA	1135	0	ASN	B 975	29.082	44.240	23.098	1.00	33.33

7 TO M	1126	CB	ASN	ъ	975	27.642	46.019	21.385	1 00	36.61
ATOM	1136									
ATOM	1137	CG	ASN		975	27.446	47.285	20.540		37.11
MOTA	1138	OD1	ASN	Б	975	26.276	47.739	20.363	1.00	39.26
MCTA	1139	ND2	ASN	В	975	28.530	47.826	20.042	1.00	29.86
ATOM	1140	N	TYR	В	976	29.715	42.945	21.379	1.00	32.96
ATOM	1141	CA	TYR		976	29.974	41.815	22.291	1.00	33.87
	1142	C	TYR		976	28.745	41.291	22.977	1.00	33.96
ATOM										
ATOM	1143	0	TYR		976	28.952	40.845	24.142	1.00	38.50
ATOM	1144	CB	TYR		976	31.090	42.145	23.319	1.00	
MOTA	1145	CG	TYR	В	976	32.316	42.635	22.562	1.00	34.93
MOTA	1146	CD1	TYR	В	976	32.643	43.977	22.488	1.00	34.96
MCTA	1147	CD2	TYR	В	976	33.064	41.750	21.796	1.00	36.25
ATOM	1148	CE1	TYR		976	33.734	44.404	21.765	1.00	36.57
ATOM	1149	CE2	TYR		976	34.151	42.185	21.066	1.00	
									1.00	
ATOM	1150	CZ	TYR		976	34.469	43.524	21.027		38.58
ATOM	1151	OH	TYR	В	976	35.544	43.988	20.318		41.08
ATOM	1152	N	VAL	В	977	27.498	41.318	22.583	1.00	33.38
ATOM	1153	CA	VAL	В	977	26.363	40.804	23.354	1.00	30.29
MOTA	1154	С	VAL	В	977	26.160	39.324	23.034	1.00	28.06
ATOM	1155	0	VAL		977	26.157	38.975	21.853	1.00	30.23
ATOM	1156	CB	VAL		977	25.135	41.674	23.014		29.39
ATOM	1157	CG1			977	23.846	41.027	23.499		28.20
ATOM	1158	CG2	VAL		977	25.284	43.038	23.718		31.72
ATOM	1159	N	ALA	В	978	26.159	38.459	24.028	1.00	27.76
MOTA	1160	CA	ALA	В	978	25.975	37.006	23.681	1.00	28.79
ATOM	1161	C	ALA	В	978	24.563	36.847	23.132	1.00	31.90
ATOM	1162	0	ALA		978	23.647	37.514	23.577	1.00	30.56
	1163	CB	ALA		978	26.186	36.192	24.917		25.90
ATOM										33.62
ATOM	1164	N			979	24.330	36.043	22.103		
MOTA	1165	CA			979	23.070	35.784	21.463		31.66
ATOM	1166	С	LYS	В	979	22.780	34.287	21.336		31.79
ATOM	1167	0	LYS	В	979	23.561	33.490	20.808	1.00	29.59
ATOM	1168	CB	LYS	В	979	23.102	36.390	20.030	1.00	34.05
MOTA	1169	CG			979	22.883	37.917	20.237	1.00	38.30
ATOM	1170	CD			979	23.149	38.766	19.049	1.00	36.22
					979	23.157	40.252	19.366	1.00	39.70
ATOM	1171	CE								
MOTA	1172	NZ			979	21.788	40.833	19.313		39.24
ATOM	1173	N	ILE	В	980	21.643	33.866	21.839		29.92
ATOM	1174	CA	ILE	B	980	21.279	32.444	21.718	1.00	29.31
ATOM	1175	С	ILE	В	980	20.877	32.083	20.290	1.00	32.94
ATOM	1176	0	ILE	В	980	20.093	32.771	19.620	1.00	34.86
ATOM	1177	CB	ILE			20.142	32.123	22.676	1.00	27.87
ATOM		CG1	ILE			20.564	32.314	24.120		29.18
	1178									32.98
ATOM	1179	CG2	ILE		980	19.778	30.614	22.519		
ATOM	1180	CD1	ILE			19.477	32.141	25.157		26.99
ATOM	1181	N	ALA	В	981	21.425	30.940	19.843		33.63
MOTA	1182	CA	ALA	В	981	21.100	30.397	18.542	1.00	34.72
MOTA	1183	С	ALA	В	981	20.872	28.883	18.597	1.00	36.94
ATOM	1184	0	ALA			20.993	28.205	19.630	1.00	36.37
			ALA			22.158	30.764	17.532		32.74
ATOM	1185	CB								38.89
ATOM	1186	N	ASP			20.702	28.316	17.416		
MOTA	1187	CA	ASP			20.540	26.898	17.122		38.46
MOTA	1188	C	ASP	В	982	19.195	26.448	17.713		37.99
ATOM	1189	0	ASP	В	982	19.092	25.674	18.675	1.00	36.61
ATOM	1190	CB	ASP	В	982	21.703	26.016	17.541	1.00	40.25
ATOM	1191	CG	ASP			21.452	24.552	17.184		43.41
ATOM	1192		ASP			20.728	24.230	16.205		46.24
MION	1174	דעט	70 E	ىد	J U Z	20.720	_ 1 . 2 . 0			

MOTA	1193	OD2	ASP	В	982	21.8	81 2	3.629	17.877	1.00	42.63
ATOM	1194	N	PHE	В	983	18.1	65 2	7.008	17.126	1.00	36.77
ATOM	1195	CA	PHE	В	983	16.7	82 2	6.774	17.503	1.00	41.16
MCTA	1196	С	PHE		983	16.0	65 2	5.567	16.890	1.00	42.48
MOTA	1197	0	PHE		983	16.0	87 2	5.257	15.684	1.00	43.89
ATOM	1198	CB	PHE	В	983	15.9	64 2	8.059	17.163	1.00	39.87
ATOM	1199	CG	PHE	В	983	16.2	80 2	9.135	18.179	1.00	39.48
ATOM	1200	CD1			983	15.9		8.923	19.504	1.00	38.68
ATOM	1201	CD2	PHE	B	983	16.9		0.289	17.825		39.97
ATOM	1202	CE1	PHE	В	983	16.2		9.809	20.491		37.05
ATOM	1203	CE2	PHE	В	983	17.2		1.221	18.816		40.42
ATOM	1204	CZ	PHE	В	983	16.9		0.993	20.135	1.00	39.41
MOTA	1205	N	GLY		984	15.3		4.852	17.733	1.00	41.51
ATOM	1206	CA	GLY		984	14.4		3.724	17.265	1.00	41.21
ATOM	1207	C	GLY		984	13.5		3.685	18.500	1.00	40.75
MOTA	1208	0	GLY		984	13.6		2.812	19.368	1.00	40.87
ATOM	1209	N	LEU		985	12.7		4.779	18.512	1.00	38.40
ATOM	1210	CA	LEU		985	12.0		5.010	19.826	1.00	38.54
ATOM	1211	C	LEU		985	10.8		4.053	20.021	1.00	39.23
ATOM	1212	. 0	LEU		985	10.3		3.451	19.099	1.00	
ATOM ATOM	1213	CB	LEU		985	11.5		6.477	19.879	1.00	38.29
ATOM	1214	CG	LEU		985	12.7		7.505	20.071	1.00	39.62
ATOM	1215 1216	CD1	LEU		985	12.1		8.913	19.963		41.67
		CD2			985 986	13.3		7.375	21.450	1.00	40.64
MOTA MOTA	1217 1218	N CA	SER SER		986	10.4		3.923	21.268	1.00	38.75
ATOM	1218	CM	SER		986	9.2 8.6		3.124	21.640	1.00	41.57
ATOM	1220	0	SER		986	9.3		3.946 4.681	22.764 23.389	1.00	41.04
ATOM	1221	CB	SER		986	9.6		1.781	22.276	1.00	
ATOM	1222	OG			986	10.1		0.965	21.268		41.12 44.70
ATOM	1223	N			987	7.3		3.872	22.881		41.47
ATOM	1224	CA	ARG		987	6.5		1.634	23.849		39.96
ATOM	1225	C			987	5.6		3.672	24.592		39.46
ATOM	1226	0			987	4.9		2.897	24.001		40.85
ATOM	1227	СВ	ARG		987	5.7		5.671	23.100		42.69
ATOM	1228	CG			987	5.5		5.881	23.980		43.46
MOTA	1229	CD			987	4.8		7.932	23.102		47.12
ATOM	1230	NE			987	4.5		9.062	23.969		48.45
ATOM	1231	CZ		В	987	- 4.04		0.245	23.498		49.30
ATOM	1232	NHl	ARG	В	987	3.89		0.446	22.195		47.75
MOTA	1233	NH2	ARG	В	987	3.82		1.126	24.461		47.10
ATOM	1234	Ŋ	GLY		988	5.80		3.678	25.895		36.84
MOTA	1235	ĆA	GLY	В	988	5.33		2.780	26.860	1.00	
MOTA	1236	C	GLY	В	988	6.13		2.613	28.131	1.00	39.84
ATOM	1237	0	GLY			7.1		3.319	28.413	1.00	
ATOM	1238	N	GLN	В	989	5.62	21 21	L.679	28.931	1.00	37.98
ATOM	1239	CA	GLN	В	989	6.2	1 21	L.351	30.208	1.00	36.52
ATOM	1240	C	GLN	В	989	7.34	2 20	344	29.982	1.00	36.26
ATOM	1241	0	GLN	В	989	8.36	54 20	.451	30.678	1.00	35.23
ATOM	1242	CB	GLN			5.13	34 20	.856	31.154	1.00	36.36
MOTA	1243	CG	GLN		989	5.6	76 20	0.186	32.391	1.00	39.62
MOTA	1244	CD	GLN	В	989	4.65	3 19	9.836	33.425	1.00	39.25
ATOM	1245	OE1	GLN		989	4.23	2 20	788	34.082	1.00	42.73
MOTA	1246	NE2	GLN		989	4.25	5 18	3.604	33.639	1.00	40.97
MOTA	1247	N	GLU			7.23		9.459	28.997	1.00	
MOTA	1248	CA	GLU			8.36		3.545	28.745	1.00	
ATOM	1249	C	GLU	В	990	8.3	18 18	3.162	27.281	1.00	31.62

							4	
ATOM	1250	0	GLU B	990	7.134	18.267	26.782	1.00 35.90
ATOM	1251	CB	GLU B	990	8.324	17.321	29.615	1.00 32.06
ATOM	1252	CG	GLU B	990	7.034	16.491	29.549	1.00 34.29
ATOM	1253	CD	GLU B	990	5.855	16.986	30,361	1.00 35.18
ATOM	1254	OEl	GLU B	990	4.741	17.354	29.866	1.00 31.61
MCTA	1255	OE2	GLU B	990	5.907	17.055	31.606	1.00 37.46
ATOM	1256	Ŋ	VAL B	991	9.245	17.586	26.636	1.00 28.59
MOTA	1257	CA	VAL B	991	9.254	17.187	25.250	1.00 27.10
ATOM	1258	С	VAL B	991	10.294	16.035	25.123	1.00 34.31
ATOM	1259	0	VAL B	991	11.499	16.047	25.461	1.00 34.01
ATOM	1260	CB	VAL B	991	9.566	18.341	24.297	1.00 27.78
ATOM	1261	CG1	VAL B	991	10.981 '	18.939	24.577	1.00 28.52
ATOM	1262	CG2	VAL B	991	9.531	17.878	22.827	1.00 26.55
ATOM	1263	N	TYR B	992	9.815	15.116	24.284	1.00 33.22
ATOM	1254	CA	TYR B	992	10.510	13.950	23.872	1.00 35.07
ATOM	1265	С	TYR B	992	11.168	14.196	22.521	1.00 36.09
ATOM	1256	0	TYR B	992	10.453	14.723	21.653	1.00 37.35
MCTA	1267	CB	TYR B	992	9.504	12.750	23.851	1.00 32.12
ATOM	1268	CG	TYR B	992	10.187	11.588	23.154	1.00 34.00
ATOM	1269	CD1	TYR B	992	10.952	10.664	23.855	1.00 35.23
ATOM	1270	CD2	TYR B		10.065	11.491	21.767	1.00 34.41
ATOM	1271	CEl	TYR B		11.597	9.629	23.205	1.00 34.80
ATOM	1272	CE2	TYR B		10.706	10.464	21.115	1.00 35.88
ATOM	1273	CZ	TYR B		11.471	9.575	21.830	1.00 37.31
ATOM	1274	OH	TYR B		12.090	8.582	21.090	1.00 41.58
ATOM	1275	N	VAL B		12.465	13.922	22.409	1.00 35.09
ATOM	1276	CA	VAL B		13.166	14.093	21.148	1.00 40.55
ATOM	1277	С	VAL B		14.192	12.937	21.077	1.00 44.20
ATOM	1278	0	VAL B		14.924	12.698	22.027	1.00 41.10
MOTA	1279	СВ	VAL B		14.027	15.345	20.884	1.00 40.80
ATOM	1280	CG1	VAL B		14.377	15.434	19.397	1.00 41.00
ATOM	1281	CG2	VAL B		13.444	16.675	21.308	1.00 40.65
ATOM	1282	N	LYS B	994	14.248	12.280	19.929	1.00 52.91
ATOM	1283	CA	LYS B		15.228	11.218	19.681	1.00 59.67
ATOM	1284	C	LYS B		16.314	11.668	18.722	1.00 63.50
MOTA	1285	0	LYS B	994	15.968	12.346	17.752	1.00 65.43
ATOM	1286	CB	LYS B		14.452	10.051	19.050	1.00 62.12
ATOM	1287	CG	LYS B	994	15.258	9.165	18.114	1.00 64.47
ATOM	1288	CD	LYS B	994	14.523	7.917	17.676	1.00 66.81
ATOM	1289	CE	LYS B		14.741	6.737	18.627	1.00 69.22
ATOM	1290	NZ	LYS B		16.113	6.131	18.446	1.00 70.28
ATOM	1291	N.	LYS B		17.568	11.244	18.841	1.00 68.11
ATOM	1292	CA	LYS B		18.698	11.497	17.964	1.00 69.33
ATOM	1293	C	LYS B		19.277	12.900	17.869	1.00 71.04
ATOM	1294	CB	LYS B		18.387	11.058	16.520	1.00 68.75
MOTA	1295	N	THR B		19.210	13.731	18.891	1.00 72.92
ATOM	1296	CA	THR B		19.849	15.039	18.958	1.00 74.27
MOTA	1297	C	THR B		18.897	16.170	18.571	1.00 74.88
ATOM	1298	0	THR B		17.742	15.867	18.197	1.00 75.62
MOTA	1299	CB	THR B		21.108	15.075	18.098	1.00 74.16
TER								
ATOM	1300	N	LEU C	21000	24.923	13.250	19.201	1.00 61.56
ATOM	1301	CA	LEU C		24.606	13.627	20.610	1.00 60.45
ATOM	1302	C	LEU C		25.273	14.888	21.132	1.00 59.31
ATOM	1303	0	LEU C		25.926	15.737	20.498	1.00 61.19
ATOM	1304	CB	LEU C		25.085	12.439	21.459	1.00 62.33
ATOM	1305	N	PRO C		25.106	15.086	22.450	1.00 55.81
* * T O 1.1	*~~~			.	_			
				•	FIG.	5W	~	
						•	•	

								7 00	17 60
ATOM	1306	CA		C1001	25.717	16.238	23.164	1.00	
ATOM	1307	С	PRO	C1001	25.633	15.865	24.622	1.00	
ATOM	1308	0		C1001	25.066	16.507	25.497	1.00	
ATOM	1309	CB	PRG	C1001	25.055	17.514	22.761	1.00	
ATOM	1310	N	VAL	C1002	26.137	14.628	24.881		39.19
ATOM	1311			C1002	26.105	13.982	26.180	1.00	36.21
ATOM	1312	C		C1002	26.526	14.731	27.414	1.00	32.43
	1313	0		C1002	25.981	14.707	28.510	1.00	29.30
ATOM	1314	CE		C1002	27.129	12.774	26.075	1.00	38.41
ATOM				C1002	27.304	12.077	27.400	1.00	36.91
MOTA	1315			C1002	26.315	11.872	25.131	1.00	39.50
MOTA	1316	-		C1002	27.699	15.354	27.317	1.00	35.49
MOTA	1317	N			28.454	16.101	28.310		34.85
ATOM:	1318	CA		C1003		17.378	28.731		32.80
ATOM	1319	С		C1003	27.745		29.675		33.09
MOTA	1320	0		C1003	28.073	18.089			35.57
ATOM	1321	CB		C1003	29.877	16.407	27.775		40.79
ATOM	1322	CG	ARG	C1003	30.017	15.726	26.418		
MOTA	1323	CD	ARG	C1003	31.524	15.638	26.082		42.74
ATOM	1324	NE	ARG	C1003	32.199	15.018	27.219		46.61
ATOM	1325	CZ	ARG	C1003	33.482	14.536	26.897		42.40
ATOM	1326	NH1	ARG	C1003	33.675	14.646	25.606		44.69
ATOM	1327	NH2		C1003	34.058	13.991	27.899		41.82
ATOM	1328	N		C1004	26.753	17.765	27.983		31.57
ATOM	1329	CA		C1004	25.743	18.792	28.171	1.00	32.26
	1330	C		C1004	24.352	18.357	28.588	1.00	33.31
ATOM		0		C1004	23.571	19.223	29.047	1.00	32.82
ATOM	1331		TRP	C1001	25.513	19.633	26.877	1.00	31.61
MOTA	1332	CB			26.794	20.424	26.649		29.75
ATOM	1333	CG		C1004	27.065	21.659	27.174		33.83
ATOM	1334	CD1		C1004	27.885	20.016	25.845		30.53
MOTA	1335	CD2	TRP	C1004		22.036	26.758		30.12
ATOM	1336	NEl		C1004	28.350		25.939		32.87
MOTA	1337	CE2	TRP		28.838	21.058			31.33
ATOM	1338	CE3	TRP	C1004	28.284	18.907	25.081		31.29
MOTA	1339	CZ2	TRP	C1004	30.114	21.052	25.322		31.61
MOTA	1340	CZ3	TRP	C1004	29.523	18.911	24.457		
MOTA	1341	CH2	TRP	C1004	30.442	19.974	24.537	1.00	
ATOM	1342	N	MET	C1005	24.039	17.058	28.523		31.05
MOTA	1343	CA	MET	C1005	22.691	16.644	28.871		30.92
ATOM	1344	С	MET	C1005	22.482	16.372	30.342	1.00	
ATOM	1345	ō	MET		23.344	15.779	30.955	1.00	
ATOM	1346	СB	MET		22.425	15.401	28.027	1.00	35.15
	1347	CG		C1005	22.250	15.671	26.542		35.78
ATOM	1348	SD		C1005	22.331	14.145	25.574	1.00	43.66
ATOM	1349	CE		C1005	20.582	13.671	25.658	1.00	39.42
MOTA		N		C1006	21.331	16.767	30.898	1.00	30.39
ATOM	1350	CA		C1006	20.980	16.384	32.257	1.00	32.23
MOTA	1351			C1006	20.903	14.819	32.255	1.00	29.50
ATOM	1352	С		C1006	20.820	14.243	31.191		25.95
ATOM	1353	0			19.558	16.827	32.686		32.19
ATOM	1354	CB		A C1006		14.271	33.415		28.66
MOTA	1355	N		C1007	21.063		33.717		34.31
MOTA	1356	CA		E C1007	20.991	12.831			32.33
MOTA	1357	C		E C1007	19.626	12.254	33.361		34.27
MOTA	1358	0		E C1007	19.539	11.314	32.569		
MOTA	1359	CB		E C1007	21.316	12.831	35.238		36.74
MOTA	1360	CG1	IL	E C1007	22.831	12.539			40.16
MOTA	1361	CG2	: ILI	E C1007	20.535	11.850	36.027		41.55
MOTA	1362	CDI	ILI	E C1007	23.298	12.738	36.843	1.00	39.53

ATOM	1363	N	GLU	C1008		18.515	12.879	33.668	1.00	32.21
ATOM	1354	CA	GLU	C1008		17.179	12.414	33.238	1.00	30.51
ATOM	1365	C	GLU	C1008		17.097	12.390	31.725	1.00	30.14
ATOM	1366	С	GLU	C1008		16.588	11.399	31.127	1.00	30.02
MOTA	1367	CB	GLU	C1008		16.079	13.201	33.887	1.00	32.29
ATOM	1368	CG		C1008		15.861	14.623	33.271		31.03
ATOM	1369	CD		C1008		16.672	15.611	34.070		30.62
	1370	OE1		C1008		17.610	15.181	34.800	1.00	33.04
ATOM						16.405			1.00	
ATOM	1371	OE2		C1008			16.824	34.011		
ATOM	1372	N		C1009		17.652	13.397	31.054	1.00	
ATOM	1373	CA		C1009		17.665	13.395	29.574		27.96
ATOM	1374	C		C1009		18.581	12.320	29.008		32.36
MOTA	1375	0		C1009		18.258	11.867	27.889		33.49
MOTA	1376	CB	SER	C1009		18.120	14.740	29.001	1.00	27.04
ATOM	1377	OG	SER	C1009		17.266	15.856	29.232	1.00	29.52
MOTA	1378	N	LEU	C1010		19.732	11.948	29.646	1.00	30.58
ATOM	1379	CA	LEU	C1010		20.458	10.834	29.043	1.00	33.82
ATOM	1380	C	LEU	C1010		19.587	9.543	29.184	1.00	34.58
ATOM	1381	0		C1010		19.600	8.647	28.340	1.00	33.77
ATOM	1382	CB		C1010		21.835	10.478	29.678		34.39
	1383	CG		C1010		22.839	11.659	29.618		34.04
ATOM							11.635	30.582		35.06
MOTA	1384	CD1		C1010		23.989				
MOTA	1385	CD2		C1010		23.324	11.698	28.183		34.32
ATOM	1386	N		C1011		18.894	9.423	30.317		34.50
MOTA	1387	CA		C1011		18.175	8.188	30.585		39.53
ATOM	1388	C	ASN	C1011		16.867	8.049	29.814	1.00	39.46
ATOM	1389	0	ASN	C1011		16.521	6.887	29.507	1.00	41.72
MOTA	1390	CB	ASN	C1011		17.744	7.990	32.055	1.00	37.12
ATOM	1391	CG	ASN	C1011		18.994	7.594	32.849	1.00	40.42
ATOM	1392	ODl	ASN	C1011		19.913	7.055	32.211	1.00	41.43
MOTA	1393	ND2		C1011		18.990	7.876	34.135	1.00	37.03
ATOM	1394	N		C1012		16.144	9.174	29.765		36.32
ATOM	1395	CA		C1012		14.765	9.067	29.205		33.71
	1396	C		C1012		14.644	9.864	27.929		37.07
ATOM				C1012		13.431	9.936	27.557		39.06
ATOM	1397	0				13.779		30.189	*	25.11
ATOM	1398	CB		C1012			9.722			
ATOM	1399	CG		C1012		13.979	9.247	31.601		26.79
MOTA	1400	CD1		C1012		13.915	10.061	32.704		28.02
MOTA	1401	CD2		C1012		14.199	7.868	31.824		29.96
ATOM	1402	CEl		C1012		14.075	9.560	33.984		31.07
ATOM	1403	CE2	TYR	C1012		14.378	7.325	33.070	1.00	30.68
MOTA	1404	ĆΖ	TYR	C1012		14.310	8.194	34.126	1.00	32.85
MOTA	1405	OH	TYR	C1012		14.494	7.677	35.423	1.00	38.60
ATOM	1406	N	SER	C1013		15.568	10.695	27.480	1.00	35.61
ATOM	1407	CA	SER	C1013		15.244	11.547	26.340	1.00	36.12
ATOM	1408	C		C1013		14.080	12.522	26.555		31.92
ATOM	1409	Ō		C1013		13.533	12.997	25.558		29.49
ATOM	1410	CB		C1013		15.021	10.764	25.075		38.37
								24.605		39.85
ATOM	1411	OG		C1013		16.000	9.929			
ATOM	1412	N		C1014	-	13.848	12.926	27.798		34.71
MOTA	1413	CA		C1014		12.887	13.999	28.005		34.17
ATOM	1414	C Ì		C1014		13.761	15.212	28.406		32.14
MOTA	1415	0	VAL	C1014		14.764	15.102	29.061		31.92
MOTA	1416	CB	VAL	C1014		11.803	13.647	29.007		35.91
MOTA	1417	CG1	VAL	C1014		10.773	14.771	28.958		35.03
ATOM	1418			C1014		11.129	12.316	28.672	1.00	35.03
MOTA	1419	N		C1015		13.255	16.377	27.994	1.00	33.31
										

7 (1) (2) (1)	1420	~~	mir 01015				
ATOM	1420	CA	TYR C1015	13.917	17.662	28.232	1.00 29.96
ATOM	1421	C	TYR C1015	12.870	18.627	28.713	1.00 32.82
ATOM	1422	O	TYR C1015	11.635	18.497	28.361	1.00 33.09
ATOM	1423	CB	TYR C1015	14.268	18.208	26.817	1.00 31.34
ATOM	1424	CG	TYR Cl015	15.273	17.339	26.106	1.00 32.85
ATOM	1425	CD:		14.953	16.293	25.270	1.00 33.14
ATOM	1426	CD2		16.625	17.556	26.338	1.00 33.80
MOTA	1427	CE1		15.892	15.497	24.664	1.00 36.71
MOTA	1428	CE2		17.623	16.791	25.745	1.00 36.63
ATOM	1429	CZ	TYR C1015	17.249	15.758	24.895	1.00 36.99
MOTA	1430	OH	TYR C1015	18.233	15.005	24.325	1.00 37.59
ATOM	1431	N	THR C1016	13.210	19.409	29.691	1.00 29.91
MOTA	1432	CA	THR Cl016	12.342	20.393	30.312	1.00 30.08
ATOM	1433	C	THR C1016	13.109	21.700	30.459	1.00 33.68
ATOM	1434	0	THR Cl016	14.307	21.752	30.085	1.00 32.46
MOTA	1435	CB	THR C1016	11.986	19.882	31.717	1.00 31.45
ATOM	1436	OG1		13.149	19.778	32.540	1.00 31.21
ATOM	1437	CG2	THR C1016	11.332	18.415	31.720	1.00 29.42
ATOM	1438	N	THR C1017	12.509	22.699	31.141	1.00 31.49
MOTA	1439	CA	THR C1017	13.301	23.863	31.536	1.00 32.10
MOTA	1440	C	THR C1017	14.367	23.447	32.536	1.00 33.86
ATOM	1441	0	THR C1017	15.480	24.004	32.588	1.00 31.99
ATOM	1442	CB	THR C1017	12.396	25.033	32.078	1.00 32.15
MOTA	1443	OG1	THR C1017	11.836	25.456	30.829	1.00 32.91
ATOM	1444	CG2	THR C1017	13.152	26.192	32.675	1.00 30.94
MOTA	1445	N	ASN Cl018	14.062	22.468	33.403	1.00 32.36
ATOM	1445	CA	ASN Cl018	15.020	21.997	34.372	1.00 34.23
MOTA	1447	С	ASN C1018	16.208	21.329	33.647	1.00 33.65
ATOM	1448	0	ASN C1018	17.326	21.560	34.163	1.00 32.63
ATOM	1449	CB	ASN C1018	14.563	21.089	35.519	1.00 33.92
ATOM	1450	CG	ASN C1018	13.478	21.750	36.390	1.00 36.18
ATOM	1451	OD1	ASN C1018	13.561	22.943	36.772	1.00 33.93
ATOM	1452			12.400	20.983	36.687	1.00 31.82
MOTA	1453	N	SER C1019	16.007	20.738	32.468	1.00 30.11
ATOM	1454	CA	SER C1019	17.216	20.101	31.865	1.00 30.11
ATOM	1455	C	SER C1019	18.016	21.121	31.069	1.00 31.68
ATOM	1456	0	SER C1019	19.237	21.110	30.787	1.00 30.62
ATOM	1457	CB	SER C1019	16.668	18.883	31.150	1.00 29.04
ATOM	1458	OG	SER C1019	16.208			1.00 29.04
ATOM	1459	N	ASP C1019	17.331	19.177 22.228	29.829 30.738	
ATOM	1460	CA	ASP C1020		23.429		1.00 30.23
ATOM	1461		ASP C1020	17.923 18.880		30.164	1.00 27.36
ATOM	1462	c.C	ASP C1020		24.034	31.183	1.00 26.47
ATOM		0		19.935	24.477	30.766	1.00 28.27
ATOM	1463 1464	CB	ASP C1020	16.986	24.536	29.714	1.00 28.00
		CG OD1	ASP C1020	16.480	24.298	28.328	1.00 28.71
ATOM	1465	OD1	ASP Close	16.969	23.343	27.647	1.00 31.13
ATOM	1466		ASP C1020	15.583	24.984	27.876	1.00 32.14
ATOM	1467	N	VAL Cl021	18.502	24.085	32.455	1.00 26.65
ATOM	1468	CA	VAL C1021	19.328	24.627	33.497	1.00 26.02
ATOM	1469	C	VAL C1021	20.546	23.742	33.781	1.00 27.12
ATOM	1470	0	VAL C1021	21.575	24.333	34.098	1.00 23.97
ATOM	1471	CB	VAL C1021	18.525	24.925	34.779	1.00 27.32
ATOM	1472		VAL C1021	19.464	25.263	35.929	1.00 25.33
ATOM	1473	CG2	VAL C1021	17.590	26.138	34.626	1.00 29.37
ATOM	1474	N	TRP C1022	20.461	22.409	33.671	1.00 25.32
ATOM	1475	CA	TRP C1022	21.679	21.587	33.868	1.00 23.28
ATOM	1476	C	TRP C1022	22.664	21.958	32.796	1.00 23.00

MOTA	1477	0	TRE	C1022	23.835	22.338	32.917	1.00	25.36
MOTA	1478	CB	. TRF	_	21.248	20.096	33.625	1.00	25.77
ATOM	1479	CG	TRE		22.434	19.150	33.646	1.00	27.35
ATOM	1480	CDI			23.411	18.987	32.695	1.00	26.63
ATOM	1481	CD2			22.685	18.200	34.675	1.00	28.39
ATOM	1482	NE1	TRP	C1022	24.267	18.008	33.079	1.00	29.90
ATOM	1483	CE2		C1022	23.840	17.481	34.300	1.00	30.24
ATOM	1484	CE3	TRP	C1022	22.041	17.867	35.866	1.00	30.30
ATOM	1485	CZ2	TRP	=	24.394	16.485	35.090	1.00	32.33
ATOM	1486	CZ3	TRP		22.563	15.816	36.624	1.00	
MCTA	1487	CH2	TRP		23.718	16.151	36.243	1.00	32.10
MOTA	1488	N	SER		22.207	21.928	31.529	1.00	21.23
MOTA	1489	CA.	SER	C1023	23.068	22.354	30.379	1.00	22.80
MOTA	1490	C	SER		23.618	23.745	30.495	1.00	27.97
MOTA	1491	0		C1023	24.829	24.031	30.146	1.00	23.26
ATOM	1492	CB		C1023	22.108	21.769	29.326	1.00	24.28
MOTA	1493	OG		C1023	21.977	22.454	28.131	1.00	34.21
MOTA	1494	N	TYR	C1024	22.810	24.769	30.968	1.00	24.68
ATOM	1495	CA		C1024	23.395	25.101	31.223	1.00	25.91
MOTA	1496	C	TYR	C1024	24.614	26.083	32.155	1.00	28.55
ATOM	1497	0		C1024	25.582	26.856	32.091	1.00	26.16
MOTA	1498	CB	TYR	C1024	22.317	27.041	31.808	1.00	23.53
MOTA	1499	CG	TYR	C1024	22.904	28.385	32.225	1.00	23.34
MOTA	1500	CDl	TYR	C1024	22.931	29.409	31.328	1.00	21.89
MOTA	1501	CD2		C1024	23.322	28.564	33.537	1.00	21.62
ATOM	1502	CEl	TYR	C1024	23.498	30.640	31.655	1.00	24.95
MOTA	1503	CE2	TYR	C1024	23.929	29.791	33.858	1.00	25.56
MOTA	1504	CZ	TYR	C1024	23.957	30.795	32.941	1.00	24.77
ATOM	1505	OH	TYR	C1024	24.513	32.006	33.282	1.00	29.84
ATOM	1506	N		C1025	24.559	25.263	33.180	1.00	31.16
ATOM	1507	CA	GLY	C1025	25.499	24.901	34.180	1.00	28.63
ATOM	1508	C	GLY	C1025	26.812	24.444	33.475	1.00	29.18
ATOM	1509	0	GLY	C1025	27.826	24.973	33.911	1.00	25.38
ATOM	1510	N	VAL	C1026	26.724	23.628	32.431	1.00	30.48
MOTA	1511	CA	VAL	C1026	27.848	23.171	31.665	1.00	30.49
ATOM	1512	С	VAL	C1026	28.404	24.335	30.867	1.00	30.61
MOTA	1513	0	VAL	C1026	29.622	24.566	30.796	1.00	31.75
ATOM	1514	CB	VAL	C1026	27.598	21.959	30.748	1.00	29.54
MOTA	1515	CGl	VAL	C1026	28.867	21.451	30.040	1.00	26.68
ATOM.	1516	CG2	VAL	C1026	26.960	20.808	31.527	1.00	28.00
ATOM	1517	N		C1027	27.539	25.107	30.208		29.76
ATOM	1518	CA	LEU	C1027	27.925	26.331	29.524	1.00	27.25
MOTA	1519	C	LEU	C1027	28.729	27.263	30.410	1.00	25.12
ATOM	1520	0	LEU	C1027	29.764	27.833	30.030	1.00	27.00
ATOM	1521	CB		C1027	26.664	27.044	28.959	1.00	27.55
MOTA	1522	CG	LEU	C1027	26.904	28.561	28.667	1.00	27.68
ATOM	1523	CD1	LEU	C1027	27.658	28.914	27.434	1.00	28.77
MOTA	1524	CD2	LEU	C1027	25.485	29.174	28.511	1.00	29.96
MCTA	1525	N	LEU	C1028	28.311	27.500	31.665	1.00	27.12
MOTA	1526	CA	LEU	C1028	28.994	28.386	32.576	1.00	26.05
MOTA	1527	C	LEU	C1028	30.399	27.853	32.836	1.00	28.29
ATOM	1528	0	LEU	C1028	31.296	28.666	32.888	1.00	27.74
MOTA	1529	CB	LEU	C1028	28.123	28.576	33.809	1.00	24.95
ATOM	1530	CG	LEU	C1028	28.601	29.349	34.990	1.00	26.00
ATOM	1531	CD1	LEU	C1028	28.932	30.805	34.567	1.00	26.51
ATOM	1532	CD2	LEU	C1028	27.771	29.411	36.264	1.00	23.62
MOTA	1533	N	TRP	C1029	30.569	26.514	32.998	1.00	27.52

ATOM	1534	CA	TRP	C1029	31.811	25.818	33.200	1.00	25.28
ATOM	1535	С	TRP	C1029	32.677	26.052	31.992	1.00	24.21
MOTA	1536	0	TRP	C1029	33.809	26.411	32.199	1.00	28.34
ATOM	1537	CB	TRP	C1029	31.604	24.291	33.488	1.00	25.52
MOTA	1538	CG	TRP	C1029	32.875	23.609	33.873	1.00	23.89
ATOM	1539	CD1	TRP	C1029	33.316	23.467	35.159	1.00	23.77
ATOM	154C	CD2	TRP	C1029	33.901	23.125	33.013	1.00	25.22
ATOM	1541	NEl	TRP	C1029	34.566	22.870	35.125	1.00	28.07
ATOM	1542	CE2	TRP	C1029	34.922	22.645	33.819	1.00	27.51
MOTA	1543	CE3	TRP	C1029	34.013	23.005	31.620	1.00	27.28
ATOM	1544	CZ2	TRP	C1029	36.095	21.998	33.349	1.00	30.61
ATOM	1545	CZ3	TRP	C1029	35.169	22.378	31.126	1.00	30.99
MOTA	1546	CH2	TRP	C1029	36.195	21.931	31.972	1.00	29.91
MOTA	1547	N	GLU	C1030	32.196	26.006	30.773	1.00	22.75
ATOM	1548	CA	GLU	C1030	32.865	26.380	29.590	1.00	24.64
MOTA	1549	C	GLU	C1030	33.291	27.882	29.553	1.00	23.46
MOTA	1550	0	GLU	C1030	34.433	28.114	29.047	1.00	23.61
MOTA	1551	CB	GLŪ	C1030	32.036	26.144	28.339	1.00	22.23
ATOM	1552	CG	GLU	C1030	31.853	24.671	28.076	1.00	27.85
MOTA	1553	CD	GLU	C1030	30.969	24.399	26.881	1.00	33.40
MOTA	1554	OE1	GLU	C1030	29.767	24.531	27.111	1.00	33.08
MOTA	1555	OE2	GĽŪ	C1030	31.477	24.088	25.792	1.00	37.59
ATOM	1556	N	ILE	C1031	32.413	28.784	30.027	1.00	20.93
ATOM	1557	CA	ILE	C1031	32.888	30.190	29.987	1.00	23.32
MOTA	1558	С	ILE	C1031	34.099	30.417	30.881	1.00	24.20
ATOM	1559	0	ILE	C1031	35.125	31.060	30.547	1.00	25.10
MOTA.	1560	CB	ILE	C1031	31.720	31.156	30.365	1.00	22.53
MOŢA	1561	CG1	ILE	C1031	30.622	31.066	29.330	1.00	24.20
ATOM	1562	CG2	ILE	C1031	32.262	32.584	30,449	1.00	25.77
ATOM	1563	CDl	ILE	C1031	29.254	31.567	29.766	1.00	24.02
ATOM	1564	N	VAL	C1032	34.002	30.128	32.180	1.00	23.96
ATOM	1565	CA	VAL	C1032	34.923	30.263	33.255	1.00	28.42
ATOM	1566	C	VAL	C1032	36.251	29.547	32.943	1.00	31.87
ATOM	1567	0	VAL	C1032	37.324	30.118	33.157	1.00	31.88
ATOM	1568	CB	VAL	C1032	34.229	29.636	34.479	1.00	31.74
MOTA	1569	CG1	VAL	C1032	35.145	28.990	35.490	1.00	35.56
ATOM	1570	CG2	VAL	C1032	33.241	30.562	35.210	1.00	29.88
ATOM	1571	N	SER	C1033	36.236	28.433	32.262	1.00	29.60
ATOM	1572	CA	SER	C1033	37.352	27.612	31.846	1.00	29.62
ATOM	1573	С	SER	C1033	37.900	28.101	30.520	1.00	30.68
ATOM	1574	Ç,	SER	C1033	38.900	27.598	30.046	1.00	30.21
ATOM	1575	CB	SER	C1033	36.909	26.139	31.703	1.00	30.12
ATOM	1576	OG	SER	C1033	36.408	25.725	30.430	1.00	30.39
ATOM	1577	N	LEU	C1034	37.291	29.100	29.905	1.00	28.42
ATOM	1578	CA	LEU	C1034	37.787	29.635	28.638	1.00	31.98
MOTA	1579	C	LEU	C1034	37.753	28.432	27.688	1.00	32.37
MOTA	1580	0	LEU	C1034	38.731	27.936	27.147		39.15
MOTA	1581	CB	LEU	C1034	39.205	30.261	28.704	1.00	29.58
ATOM	1582	CG	LEU	C1034	39.466	31.409	29.630		28.94
MOTA	1583	CD1	LEU	C1034	40.895	31.922	29.656		30.58
ATOM	1584	CD2	LEU	C1034	38.617	32.636	29.209	-	26.58
ATOM	1585	N	\mathtt{GLY}	C1035	36.530	27.864	27.544		28.98
ATOM	1586	CA	\mathtt{GLY}	C1035	36.357	26.754	26.647		24.56
ATOM	1587	C	GLY	C1035	37.171	25.481	26.790		20.81
MOTA	1588	0	GLY	C1035	37.321	24.796	25.771	1.00	21.90
ATOM	1589	N	GLY	C1036	37.326	24.968	27.997		21.82
ATOM	1590	CA	GLY	C1036	37.834	23.629	28.239	1.00	25.47
				•					

ATOM	1591	С	GLY	C1036	36.727	22.590	27.923	1.00 28.57
MOTA	1592	0	$\operatorname{GL} \operatorname{Y}$	C1036	35.562	22.944	28.062	1.00 33.09
ATOM	1593	N	THR	C1037	37.098	21.424	27.446	1.00 31.18
ATOM	1594	CA	THR	C1037	36.071	20.402	27.101	1.00 31.40
MOTA	1595	C	THR	C1037	35.671	19.771	28.411	1.00 29.08
ATOM	1596	0	THR	C1037	36.402	19.322	29.267	1.00 28.43
ATOM	1597	CB	THR	C1037	36.849	19.362	26.248	1.00 35.25
ATOM	1598	OG1	THR	C1037	37.143	19.856	24.934	1.00 34.77
ATOM	1599	CG2	THR	C1037	36.056	18.071	26.103	1.00 39.81
ATOM	1600	N	PRO	C1038	34.318	19.849	28.643	1.00 28.79
ATOM	1601	CA	PRO	C1038	33.748	19.251	29.832	1.00 29.26
MOTA	1602	C	PRO	C1038	34.121	17.764	29.891	1.00 30.33
MCTA	1603	0	PRO	C1038	34.045	17.064	28.877	1.00 30.70
ATOM .	1604	CB	PRO	C1038	32.262	19.472	29.632	1.00 29.45
ATOM.	1605	CG	PRO	C1038	32.146	20.595	28.674	1.00 26.90
MOTA	1606	CD	PRO	C1038	33.290	20.373	27.726	1.00 26.24
MCTA	1607	N	TYR	C1039	34.507	17.239	31.019	1.00 27.10
ATOM	1608	CA	TYR	C1039	34.831	15.865	31.319	1.00 31.51
ATOM	1609	C	TYR	C1039	35.958	15.322	30.451	1.00 33.48
MCTA	1610	0	TYR	C1039	36.068	14.191	29.947	1.00 32.47
ATOM	1611	CB	TYR	C1039	33.590	14.968	31.246	1.00 29.03
ATOM	1612	CG	TYR	C1039	32.355	15.453	31.980	1.00 28.35
MOTA	1613	CD1	TYR	C1039	31.290	15.997	31.247	1.00 27.58
MOTA	1614	CD2	TYR	C1039	32.220	15.368	33.364	1.00 26.44
ATOM	1615	CE1	TYR	C1039	30.142	16.486	31.827	1.00 23.25
ATOM	1616	CE2	TYR	C1039	31.053	15.846	33.969	1.00 25.69
ATOM	1617	CZ	TYR	C1039	30.031	16.398	33.196	1.00 25.31
ATOM	1618	OH	TYR	C1039	28.870	16.776	33.851	1.00 28.82
ATOM	1619	N	CYS	C1040	36.877	16.276	30.243	1.00 37.16
ATOM	1620	CA	CYS	C1040	38.045	16.095	29.389	1.00 38.31
ATOM	1621	C	CYS	C1040	38.733	14.821	29.848	1.00 36.75
ATOM	1622	0	CYS	C1040	38.962	14.593	31.042	1.00 33.37
ATOM	1623	CB	CYS	C1040	38.886	17.360	29.511	1.00 41.12
MOTA	1624	SG	CYS	C1040	40.570	17.157	28.904	1.00 52.08
ATOM	1625	N		C1041	38.916	13.899	28.920	1.00 38.90
MOTA	1626	CA	GLY	C1041	39.550	12.613	29.230	1.00 43.75
MOTA	1627	С	GLY	C1041	38.531	11.489	29.459	1.00 46.25
MOTA	1628	0		C1041	38.940	10.313	29.384	1.00 45.71
ATOM	1629	N	MET	C1042	37.288	11.831	29.785	1.00 46.22
ATOM	1630	CA	MET	C1042	36.267	10.832	30.078	1.00 47.06
ATOM	1631	C,	MET	C1042	35.471	10.388	28.874	1.00 47.05
MOTA	1632	0	MET	C1042	35.257	11.143	27.937	1.00 47.49
ATOM	1633	CB	MET	C1042	35.281	11.343	31.119	1.00 46.72
MOTA	1634	CG		C1042	35.944	11.646	32.445	1.00 48.06
MOTA	1635	SD	MET	C1042	34.712	11.819	33.734	1.00 51.59
ATOM	1636	CE		C1042	33.816	10.274	33.378	1.00 51.12
MOTA	1637	N		C1043	35.143	9.097	28.852	1.00 48.58
MOTA	1638	CA		C1043	34.359	8.548	27.745	1.00 50.37
MOTA	1639	C		C1043	32.867	8.824	27.938	1.00 49.20
ATOM	1640	0		C1043	32.469	8.990	29.090	1.00 48.53
ATOM	1641	CB		C1043	34.541	7.022	27.715	1.00 49.50
MOTA	1642	OG1		C1043	33.825	6.420	28.780	1.00 49.52
MOTA	1643	CG2		C1043	36.053	6.740	27.911	1.00 48.66
MOTA	1644	N		C1044	32.090	8.784	26.869	1.00 52.39
MOTA	1645	CA		C1044	30.591	8.992	27.031	1.00 54.39
MOTA	1646	C		C1044	30.054	7.913	27.964	1.00 55.34
ATOM	1647	0	CYS	C1044	29.373	8.230	28.952	1.00 56.27

ATOM	1648	СВ	CYS	C1044	29.890	9.166	25.699	1.00	
MOTA	1649	SG	CYS	C1044	30.275	10.658	24.717		54.87
ATOM	1650	N	ALA	C1045	30.546	6.68≟	27.883		53.74
ATOM	1651	CA	ALA	C1045	30.276	5.533	28.691		53.52
ATOM	1652	С	ALA	C1045	30.319	5.704	30.200		52.95
ATOM	1653	0	ALA	C1045	29.467	5.296	31.022	1.00	52.64
ATOM	1654	CB	ALA	C1045	31.379	4.491	28.321		54.24
ATOM	1655	N	GLU	C1046	31.440	6.277	30.650		50.91
MOTA	1656	CA	GLU	C1046	31.637	6.589	32.076		48.71
ATOM	1657	С	GLU	C1046	30.675	7.673	32.539		46.60
ATOM	1658	0	GLU	C1046	 30.237	7.666	33.717		44.26
ATOM	1659	CB	GLU	C1046	33.085	7.002	32.314		49.93
ATOM	1660	CG	GLU	C1046	34.115	6.109	31.628		53.13
MOTA	1661	CD	GLU	C1046	35.513	6.735	31.729		54.82
ATOM	1662	OE1	GLU	C1046	36.134	6.539	32.795		54.82
MOTA	1663	OE2	GLU	C1046	35.963	7.416	30.783	1.00	55.96
ATOM	1664	N	LEU	C1047	30.268	8.586	31.614		45.34
ATOM	1665	CA	LEU	C1047	29.331	9.632	32.066		44.07
ATOM	1666	C	LEU	C1047	27.983	9.017	32.439		42.99
ATOM	1667	0	LEU	C1047	27.530	9.215	33.576		42.01
ATOM	1668	CB	LEU	C1047	29.181	10.815	31.111		45.07
ATOM	1669	CG	LEU	C1047	30.430	11.706	30.918		44.08
ATOM	1670	CD1	LEU	C1.047	30.038	12.921	30.115		45.50
MOTA	1671	CD2	LEU	C1047	31.071	12.058	32.245		42.85
ATOM	1672	N	TYR	C1048	27.409	8.182	31.588		43.22
ATOM	1673	CA	TYR	C1048	26.213	7.392	31.910		44.38
MOTA	1674	С	TYR	C1048	26.397	6.646	33.245		44.87
MOTA	1675	0	TYR	C1048	25.486	6.717	34.085		43.82
ATOM	1676	CB	TYR	C1048	25.905	6.343	30.853		44.96
ATOM	1677	CG	TYR	C1048	25.256	6.871	29.600		47.81
ATOM	1678	CD1	TYR	C1048	26.033	7.330	28.545		47.83
MOTA	1679	CD2	TYR	C1048	23.852	6.898	29.482		48.40
ATOM	1680	CE1	TYR	C1048	25.436	7.802	27.387	1.00	47.27
ATOM	1681	CE2	TYR	C1048	23.246	7.366	28.324		48.08
ATOM	1682	CZ	TYR	C1048	24.075	7.815	27.294		48.94
ATOM	1683	OH	TYR	C1048	23.413	8.274	26.168		49.94
ATOM	1684	N	GLU	C1049	27.591	6.069	33.477		42.94
MOTA	1685	CA	GLU	C1049	27.749	5.400	34.754		45.35
ATOM	1686	C	GLU	C1049	28.155	6.333	35.873	1.00	44.67
MOTA	1687	0	GLU	C1049	27.588	6.137	36.975		45.76
MOTA	1688	СB	GLU	C1049	28.683	4.171	34.686		47.30
MOTA	1689	ĊĠ		C1049	30.158	4.453	34.837		49.28
ATOM	1690	CD	GLU	C1049	31.072	3.245	35.050		50.85
MOTA	1691	OEl	GLU	C1049	31.702	2.810	34.042	1.00	
ATOM	1692	OE2	GLU	C1049	31.179	2.748	36.200		49.78
ATOM	1.693	N	LYS	C1050	29.038	7.320	35.685		45.45
MOTA	1694	CA	LYS	C1050	29.387	8.148	36.861		46.05
ATOM	1695	С		C1050	28.404	9.253	37.175		44.76
ATOM	1696	0		C1050	28.099	9.497	38.375		44.16
MOTA	1697	CB		C1050	30.814	8.668	36.707		49.41
ATOM	1698	CG		C1050	31.798	7.565	36.380		52.04
MOTA	1699	CD	LYS	C1050	33.285	7.938	36.456		54.77
MOTA	1700	CE	LYS	Cl050	34.086	6.629	36.533		56.01
ATOM	1701	NZ	LYS	C1050	35.565	6.819	36.433		58.90
MOTA	1702	N	LEU	C1051	27.733	9.813	36.163		41.92
ATOM	1703	CA	LEU	C1051	26.746	10.866	36.552		43.18
MOTA	1704	C	LEU	C1051	25.759	10.435	37.607	1.00	43.39

							20 662	1.00	17 61
MOTA	1705	0	LEU	C1051	25.582	11.062	38.662		
ATOM	1706	CB	LEU	C1051	26.145	11.496	35.307	1.00	
ATOM	1707	CG	LEU	C1051	27.096	12.382	34.480	1.00	42.95
ATOM	1708		T.ETT	C1051	26.331	12.985	33.326	1.00	43.01
				C1051	27.702	13.468	35.366	1.00	43.66
MOTA	1709					9.288	37.475	1.00	
ATOM	1710	N		C1052	25.084				
ATOM	1711	CA		C1052	24.140	8.817	38.470	1.00	
ATOM	1712	С	PRO	C1052	24.736	8.635	39.839	1.00	
MCTA	1713	0	PRO	C1052	24.088	8.826	40.880	1.00	48.20
ATOM	1714	CB	PRO	C1052	23.559	7.544	37.854	1.00 -	45.47
MCTA	1715	CG		C1052	23.652	7.799	36.384	1.00	44.83
				C1052	25.013	8.487	36.242	1.00	45.28
MOTA	1716	CD			26.006	8.296	40.007	1.00	
ATOM	1717	N		C1053				1.00	
MOTA	1718	CA		C1053	26.594	8.130	41.331		
ATOM	1719	C	GLN	C1053	26.921	9.462	41.976	1.00	
ATOM	1720	0	GLN	C1053	27.231	9.442	43.175	1.00	
ATOM	1721	CB	GLN	C1053	27.798	7.199	41.221	1.00	55.75
ATOM	1722	CG	GIN	C1053	27.411	5.794	40.768	1.00	61.04
		CD		C1053	26.526	5.041	41.743	1.00	64.91
MOTA	1723				26.851	4.904	42.948	1.00	
ATOM	1724	OE1		C1053				1.00	
MOTA	1725	NE2		C1053	25.370	4.528	41.286		
ATOM	1726	N	GLY	C1054	26.801	10.624	41.320	1.00	
ATOM	1727	CA	GLY	C1054	27.061	11.874	42.052	1.00	
ATOM	1728	С	GLY	C1054	28.276	12.597	41.495	1.00	44.62
ATOM	1729	0		C1054	28.683	13.662	41.920	1.00	43.65
		N		C1055	28.917	12.051	40.482	1.00	45.48
MOTA	1730				30.099	12.698	39.937	1.00	
MOTA	1731	CA		C1055			39.214	1.00	
ATOM	1732	C		C1055	29.685	13.995		1.00	
MOTA	1733	0		C1055	28.622	13.976	38.583		
ATOM	1734	CB	TYR	C1055	30.767	11.776	38.932	1.00	
ATOM	1735	CG	TYR	C1055	32.055	12.414	38.433	1.00	
MOTA	1736	CD1	TYR	C1055	33.235	12.302	39.143	1.00	48.82
ATOM	1737	CD2		C1055	32.045	13.129	37.234	1.00	48.37
		CEL		C1055	34.401	12.898	38.658	1.00	48.87
ATOM	1738				33.178	13.723	36.737	1.00	
ATOM	1739	CE2		C1055			37.459		49.27
ATOM	1740	CZ		C1055	34.354	13.582			48.77
MOTA	1741	$_{\rm OH}$		C1055	35.488	14.170	36.952		
MOTA	1742	N	ARG	C1056	30.485	15.051	39.252	1.00	
MOTA	1743	CA	ARG	C1056	30.189	16.276	38.566		38.71
ATOM	1744	С	ARG	C1056	31.481	17.012	38.176	1.00	39.85
	1745	0		C1056	32,472	16.797	38.879	1.00	42.11
ATOM	_	•		C1056	29.407	17.281	39.408	1.00	38.04
MCTA	1746	ĊВ			27.996	17.004	39.890		37.78
MOTA	1747	CG		C1056					34.37
ATOM	1748	CD		C1056	27.022	16.584	38.810		
ATOM	1749	ΝE	ARG	C1056	25.677	16.380	39.370		32.75
MOTA	1750	CZ	ARG	C1056	25.172	15.135	39.461		34.13
MOTA	1751	NHl	ARG	C1056	23.934	15.014	39.951		33.89
ATOM	1752	NH2		C1056	25.884	14.083	39.063	1.00	31.70
					31.450	17.843	37.130	1.00	37.74
ATOM	1753	N		C1057	32.615	18.640	36.829		38.61
MOTA	1754	CA		C1057					37.18
MOTA	1755	С		C1057	33.280	19.260	38.062		
ATOM	1756	0	LEU	C1057	32.759	19.829	39.007		36.18
MOTA	1757	CB	LEU	C1057	32.223	19.785	35.886		39.58
ATOM	1758	CG	LEU	C1057	31.870	19.236	34.492		40.26
ATOM	1759			C1057	31.190	20.384	33.790		41.53
				C1057	33.089	18.719	33.746	1.00	40.04
ATOM	1760				34.597	19.231	37.962		38.47
ATOM	1761	N	نايلني	C1058	34.33/	10.201	ے ح	_,,,	

ATOM	1762	CA	GLU	C1058	35.494	19.715	39.003	1.00	40.99
ATOM	1763	C	GLU	C1058	35.655	21.237	38.941	1.00	37.60
ATOM	1764	0	GLU	C1058	35.665	21.759	37.841	1.00	37.18
ATOM	1765	CB	GLU	C1058	36.808	18.952	38.778	1.00	43.93
ATOM	1766	CG	GLU	C1058	37.256	18.728	37.367	1.00	49.34
MOTA	1767	CD	GLU	C1058	36.540	18.005	36.265	1.00	51.18
ATOM	1768	OEl	${ t GLU}$	C1058	3€.581	18.538	35.121	1.00	50.19
MOTA	1769	OE2	GLU	C1058	35.931	16.902	36.361	1.00	52.82
ATOM	1770	N	LYS	C1059	35.708	21.975	40.005	1.00	35.88
ATOM	1771	CA	LYS	C1059	35.948	23.424	39.950	1.00	40.12
ATOM	1772	С	LYS	C1059	37.345	23.831	39.473	1.00	41.54
MOTA	1773	0	LYS	C1059	38.332	23.431	40.095	1.00	41.88
MOTA	1774	CB	LYS	C1059	35.946	23.896	41.417	1.00	39.21
ATOM	1775	CG	LYS	C1059	35.984	25.413	41.569	1.00	41.97
ATOM	1776	CD	LYS	C1059	35.953	25.810	43.048	1.00	43.62
ATOM	1777	CE	LYS	C1059	37.349	25.786	43.641	1.00	43.92
ATOM	1778	NΖ	LYS	C1059	38.192	26.906	43.099	1.00	44.39
ATOM	1779	N	PRO	C1060	37.498	24.651	38.439	1.00	41.99
MOTA	1780	CA		C1060	38.795	25.166	38.040		42.27
ATOM	1781	С		C1060	39.441	25.920	39.186		42.45
MOTA	1782	0	PRO	C1060	38.840	26.618	39.996	1.00	40.76
ATOM	1783	CB	PRO	C1060	38.529	26.115	36.894	1.00	43.06
MOTA	1784	CG	PRO	C1060	37.145	25.765	36.416	1.00	41.60
ATOM	1785	CD	PRO	C1060	36.408	25.170	37.589	1.00	41.74
MOTA	1786	N	LEU	C1061	40.773	25.843	39.287	1.00	44.11
MOTA	1787	CA	LEU	C1061	41.557	26.440	40.325		44.84
ATOM	1788	C	LEU	C1061	41.416	27.941	40.443	1.00	44.71
MOTA	1789	0		C1061	41.441	28.470	41.567	1.00	45.26
MOTA	1790	CB	LEU	C1061	43.036	26.089	40.055	1.00	48.79
MOTA	1791	CG		C1061	43.314	24.624	40.459	1.00	52.11
MOTA	1792	CD1	LEU	C1061	44.673	24.204	39.897		53.08
MOTA	1793	CD2		C1061	43.288	24.512	41.984	1.00	52.05
ATOM	1794	N	ASN	C1062	41.247	28.623	39.321	1.00	44.44
MOTA	1795	CA	ASN	C1062	41.112	30.085	39.327		44.45
MOTA	1796	C	ASN	C1062	39.661	30.582	39.363		44.24
ATOM	1797	0		C1062	39.394	31.757	39.073		42.70
MOTA	1798	CB		C1062	41.811	30.536	38.059	1.00	47.14
MOTA	1799	CG	ASN	C1062	41.018	30.280 -		1.00	50.71
MOTA	1800	OD1	ASN	C1062	40.297	29.260	36.680	1.00	55.26
MOTA	1801	ND2		C1062	41.160	31.208	35.873	1.00	49.84
MOTA	1802	Ŋ.		C1063	38.727	29.727	39.787		40.21
ATOM	1803	CA		C1063	37.312	30.006	39.917		39.16
MOTA	1804	С		C1063	36.922	30.226	41.375		40.26
MOTA	1805	0		Ç1063	37.149	29.298	42.177		38.11
ATOM	1806	CB	CYS	C1063	36.476	28.796	39.430		36.02
MOTA	1807	SG	CYS	C1063	34.684	29.162	39.283		36.25
MOTA	1808	N		C1064	36.179	31.287	41.675		39.98
MOTA	1809	CA		C1064	35.704	31.514	43.034		42.23
ATOM	1810	C		C1064	34.623	30.474	43.367		43.63
ATOM	1811	0		C1064	33.885	29.998	42.516		42.13
MOTA	1812	CB		C1064	35.166	32.915	43.277		44.24
ATOM	1813	CG		C1064	34.744	33.348	44.660		47.38
ATOM	1814			C1064	35.591	34.016	45.335		49.14
MOTA	1815	OD2		C1064	33.594	33.165	45.169		46.30
MOTA	1816	N		C1065	34.571	30.128	44.646	•	44.20
MOTA	1817	CA		C1065	33.681	29.213	45.285		46.41
MOTA	1818	С	ASP	C1065	32.214	29.629	45.059	1.00	46.09

70 TT () * 1	1819	0	ASP (21065	31.383	28.772	44.807	1.00 45.90
ATOM	1820			21065	33.999	29.111	46.780	1.00 49.84
ATOM	1821			C1065	34.972	28.020	47.179	1.00 54.04
ATOM				C1065	35.370	27.139	46.384	1.00 54.54
MOTA	1822			C1065	35.412	27.941	48.364	1.00 56.55
ATOM	1823			C1066	31.932	30.931	44.991	1.00 46.33
ATOM	1824		-	C1066	30.585	31.364	44.699	1.00 46.37
MOTA	1825				30.162	30.946	43.279	1.00 43.58
MCTA	1826	_		C1066	28.974	30.622	43.161	1.00 40.53
MCTA	1827			C1066	30.362	30.822	44.901	1.00 47.78
MOTA	1828			C1066	30.464	33.371	46.327	1.00 51.27
MCTA	1829			C1066		34.853	46.483	1.00 54.46
MOTA	1830			C1066	30.147	35.632	47.023	1.00 56.49
ATOM	1831			C1066	30.977	35.632	46.075	1.00 54.91
MCTA	1832			C1066	29.039		42.267	1.00 40.02
MOTA	1833			C1067	31.031	31.026	40.914	1.00 38.39
MOTA	1834			C1067	30.592	30.670	40.750	1.00 38.56
ATOM	1835	C		C1067	30.361	29.166		1.00 35.01
ATOM	1836	0		C1067	29.492	28.741	39.975	1.00 37.83
MCTA	1837	CB		C1067	31.561	31.094	39.797	1.00 37.83
ATOM	1838	CG1		C1067	31.071	30.760	38.416	1.00 39.35
ATOM	1839	CG2		C1067	31.809	32.609	39.878	1.00 37.89
ATOM	1840	N		C1068	31.258	28.419	41.393	
ATOM	1841	CA		C1068	31.203	26.969	41.346	1.00 38.97
MOTA	1842	C		C1068	29.924	26.510	42.044	1.00 40.70
MOTA	1843	0	$\mathtt{T} \mathtt{Y} \mathtt{R}$	C1068	29.265	25.613	41.492	1.00 38.63
ATOM	1844	CB	\mathtt{TYR}	C1068	32.437	26.278	41.913	1.00 37.20
ATOM	1845	CG		C1068	32.470	24.770	41.798	1.00 35.05
ATOM	1846	CD1		C1068	32.535	24.158	40.556	1.00 34.59
ATOM	1847	CD2		C1068	32.431	23.934	42.903	1.00 35.51
MOTA	1848	CE1		C1068	32.536	22.785	40.405	1.00 33.51
ATOM	1849	CE2		C1068	32.456	22.549	42.800	1.00 33.38
ATOM	1850	CZ		C1068	32.540	22.006	41.540	1.00 33.70
ATOM	1851	OH		C1068	32.545	20.637	41.342	1.00 37.05 1.00 42.06
MOTA	1852	N		C1069	29.573	27.177	43.159	
ATOM	1853	CA		C1069	28.316	26.862	43.806	1.00 42.68
MOTA	1854	C		C1069	27.124	27.069	42.869	1.00 40.99 1.00 40.08
MOTA	1855	0	ASP	C1069	26.233	26.193	42.884	
ATOM	1856	CB	ASP.	C1069	28.116	27.676	45.094	
MOTA	1857	CG	ASP	C1069	28.983	27.092	46.212	1.00 53.70 1.00 55.80
ATOM	1858	OD1	ASP	C1069	29.487	25.940	46.045	1.00 55.80
MOTA	1859	OD2	ASP	C1069	29.161	27.786	47.254	1.00 36.81
ATOM	1860	N.		C1070	27.080	28.150	42.087	1.00 36.03
MOTA	1861	CA		C1070	25.977	28.308	41.140	
ATOM	1862	C		C1070	25.905	27.172	40.123	1.00 34.83 1.00 32.57
ATOM	1863	0		C1070	24.833	26.703	39.743	1.00 32.57
ATOM	1864	CB	LEU	C1070	26.131	29.666	40.472	1.00 35.12
ATOM	1865	CG		C1070	25.095	30.113	39,458	
ATOM	1866	CD1	LEU	C1070	23.674	29.955	40.003	1.00 34.71 1.00 34.63
ATOM	1867	CD2		C1070	25.391	31.582	39.084	
MOTA	1868	N	MET	C1071	27.036		39.602	1.00 36.71
ATOM	1869	CA	MET	C1071	27.131		38.706	1.00 37.17
ATOM	1870	C	MET	C1071	26.555		39.372	1.00 36.93
MOTA	1871	0	MET	C1071	25.808	_	38.735	1.00 36.82
ATOM	1872	CB		C1071	28.569		38.294	1.00 35.35
MOTA	1873	CG	MET	C1071	29.354		37.465	1.00 35.64
ATOM	1874	SD	MET	C1071	31.096		37.207	1.00 32.11
ATOM	1875		MET	C1071	31.839	27.209	36.753	1.00 34.27

ATOM	1876	N	ARG	C1072		26.959	23.943	40.580	1.00	36.71
ATOM	1877	CA		C1072		26.550	22.771	41.323	1.00	37.27
MOTA	1878	C	ARG	C1072		25.039	22.687	41.557	1.00	36.15
ATOM	1879	0		C1072		24.384	21.638	41.587	1.00	37.31
ATOM	1880	CB		C1072		27.272	22.810	42.713	1.00	39.01
ATOM	1881	CG	ARG	C1072		28.773	22.514	42.664	1.00	38.84
ATOM	1882	CD		C1072		29.110	21.260	41.887	1.00	40.99
ATOM	1883	NE	ARG	C1072		28.618	20.088	42.608	1.00	45.98
ATOM	1884	CZ		C1072		29.217	19.090	43.239	1.00	46.52
ATOM	1885	NH1		C1072		30.532	18.968	43.255	1.00	44.60
	1886			C1072		28.428	18.173	43.842	1.00	46.54
ATOM	1857	N		C1073		24.427	23.832	41.775	1.00	36.36
MOTA	1888	CA		C1073		22.986	24.010	41.934	1.00	36.84
ATOM	1889	C		C1073		22.289	23.680	40.612		35.17
ATOM				C1073		21.240	23.043	40.616		36.12
MOTA	1890	0		C1073		22.690	25.436	42.324		40.62
ATOM	1891	CB		C1073		22.926	25.928	43.737		
MOTA	1892	CG				22.601	27.425	43.797		48.97
ATOM	1893	CD		C1073		22.895	28.160	44.746		50.88
ATOM	1894	OE1	GLN	C1073			27.977	42.770		50.58
ATCM	1895	NE2		C1073		21.954		39.463		34.02
MOTA	1896	N	CYS	C1074		22.888	23.925	38.175		33.44
ATOM	1897	CA		C1074		22.346	23.554	37.953		32.85
ATOM	1898	C	CYS	C1074		22.300	22.048	37.050	1.00	28.15
ATOM	1899	0	CYS	C1074		21.595	21.573	_		32.80
MOTA	1900	CB	CYS	C1074		23.165	24.222	37.052		29.54
ATOM	1901	SG		C1074		22.926	26.054	36.945		
MOTA	1902	N		C1075		23.155	21.300	38.651		34.38
MOTA	1903	CA	TRP	C1075		23.323	19.869	38.394		36.36
MOTA	1904	С	TRP			22.772	19.008	39.538		37.35 36.14
MOTA	1905	0	TRP	C1075		23.378	17.961	39.809		31.61
ATOM	1906	CB		C1075		24.797	19.516	38.184		32.01
MCTA	1907	CG	TRP	C1075		25.554	20.319	37.170		
MOTA	1908	CD1	TRP			25.035	20.735	35.945	1.00	30.72
MOTA	1909	CD2		C1075		26.905	20.792	37.215		27.71
MOTA	1910	NE1	TRP	C1075		26.028	21.458	35.263		27.75
ATOM	1911	CE2	TRP	C1075		27.165	21.473	36.015		27.79
ATOM	1912	CE3	TRP	C1075		27.923	20.731	38.161		29.11
MOTA	1913	CZ2	TRP	C1075	,	28.393	22.095	35.707		27.12
MOTA	1914	CZ3	TRP	C1075		29.172	21.338	37.861	1.00	27.92
ATOM	1915	CH2		.C1075		29.394	22.010	36.640	1.00	26.04
ATOM	1916	И		C1076		21.729	19.503	40.206		38.82
ATOM	1917	ĊA	ARG	C1076	•	21.190	18.763	41.348		40.61
ATOM	1918	C	ARG	C1076		20.509	17.546	40.743		40.05
ATOM	1919	0	ARG	C1076		19.967	17.688	39.634		40.43
ATOM	1920	CB	ARG	C1076		20.272	19.608	42.208		42.35
MOTA	1921	CG	ARG	C1076		20.932	20.378	43.334		45.64
ATOM	1922	CD	ARG	C1076		20.106	21.505	43.893		49.70
A'TOM	1923	NE	ARG	C1076		20.769	22.441	44.800		52.00
ATOM	1924	CZ	ARG	C1076		20.478	23.723	45.050		51.66
ATOM	1925	NH1	ARG	C1076		19.508	24.410	44.455		50.03
ATOM	1926	NH2	ARG	C1076		21.238	24.353	45.949		52.86
ATOM	1927	N	GLU	C1077		20.598	16.392	41.374		41.20
ATOM	1928	CA	GLU	C1077		19.944	15.200	40.818		42.65
ATOM	1929	C		C1077		18.447	15.393	40.555		38.60
ATOM	1930	0		C1077		17.929	15.043	39.481		35.94
ATOM	1931	CB	GLU	C1077		20.198	13.968	41.695		45.87
ATOM	1932	CG		C1077		20.013	12.643	40.962	1.00	50.08
	-									

ATOM	1933	CD	GLU	C1077	20.183	11.401	41.819		54.47
ATOM	1934	OEl	GLU	C1077	20.561	10.312	41.308		57.69
ATOM	1935	OE2	GLU	C1077	19.955	11.404	43.055		56.30
ATOM	1936	N		C1078	17.706	15.887	41.503	1.00	39.48
ATOM	1937	CA		C1078	16.243	16.090	41.262	1.00	40.94
	1938	C		C1078	16.079	17.369	40.455	1.00	40.21
ATOM		0		C1078	16.480	18.449	40.854	1.00	38.01
ATOM	1939			C1078	15.475	16.240	42.568		43.70
MCTA	1940	CB			15.829	15.188	43.605		46.67
MOTA	1941	CG	LYS	C1078		15.538	45.015		49.04
ATOM	1942	CD	LYS	C1078	15.384		45.826		53.53
ATOM	1943	CE	LYS	C1078	15.414	14.237			55.30
ATOM	1944	NZ		C1078	14.894	14.422	47.213		
ATOM	1945	N		C1079	15.476	17.282	39.288		38.88
ATOM	1946	CA	PRO	C1079	15.298	18.465	38.451		39.64
MOTA	1947	С	PRO	C1079	14.654	19.621	39.182		40.23
ATOM	1948	0	PRO	C1079	15.091	20.778	39.078		39.41
ATOM	1949	CB	PRO	C1079	14.521	17.924	37.259		36.96
ATOM	1950	CG		C1079	14.929	16.461	37.199	1.00	35.65
ATOM	1951	CD	PRO	_	14.988	16.035	38.647	1.00	36.92
	1952	N		C1080	13.657	19.387	40.028	1.00	41.92
ATOM				C1080	12.882	20.406	40.717		43.85
ATOM	1953	CA		C1080	13.587	21.140	41.824		43.51
ATOM	1954	C			13.109	22.140	42.388		43.12
ATOM	1955	0		C1080		19.831	41.176		45.60
MOTA	1956	CB		C1080	11.505				47.84
MOTA	1957	CG		C1080	11.697	18.722	42.194		49.35
ATOM	1958	CD1		C1080	11.973	18.993	43.531		
ATOM	1959	CD2	TYR	C1080	11.636	17.389	41.798		49.13
ATOM	1960	CE1	TYR	C1080	12.146	17.958	44.445		50.14
MOTA	1961	CE2	TYR	C1080	11.806	16.370	42.704		50.24
ATOM	1962	CZ	TYR	C1080	12.058	16.656	44.030		50.60
ATOM	1963	OH	TYR	C1080	12.242	15.597	44.908		53.21
ATOM	1964	N	GLU	C1081	14.799	20.700	42.144		44.60
ATOM	1965	CA		C1081	15.638	21.420	43.102	1.00	44.07
	1966	C		C1081	16.559	22.432	42.419	1.00	40.19
ATOM		0		C1081	17.250	23.137	43.126	1.00	37.60
ATOM	1967			C1081	16.508	20.467	43.922	1.00	45.52
ATOM	1968	CB	_	C1081	15.648	19.808	45.014	1.00	50.79
MCTA	1969	CG			16.627	18.944	45.789		54.16
ATOM	1970	CD		C1081		19.248	46.968		58.46
ATOM	1971	OE1		C1081	16.879	17.991	45.250		55.69
MOTA	1972	OE2		C1081	17.210		41.105		39.28
MOTA	1973	N		C1082	16.647	22.458			37.58
MOTA	1974	CA		C1082	17.497	23.363	40.367		38.63
MOTA	1975	C		C1082	16.828	24.740	40.394		
MOTA	1975	0	ARG	C1082	15.612	24.910	40.383		40.38
MOTA	1977	CB	ARG	C1082	17.704	22.926	38.895		36.08
ATOM	1978	CG	ARG	C1082	18.469	21.599	38.779		36.20
ATOM	1979	CD	ARC	C1082	18.609	20.955	37.417		33.59
MOTA	1980	NE		C1082	18.832	19.501	37.535		34.00
ATOM	1981	CZ		C1082	18.469	18.515	36.714		32.08
	1982			C1082	17.822	18.762	35.569		31.72
ATOM		NH2		C1082	18.708	17.204	36.908		31.86
ATOM	1983			C1082	17.667	25.772	40.289		34.94
ATOM	1984	N			17.201	27.135	40.253		32.78
MOTA	1985	CA		C1083		27.432	38.912		33.70
MOTA	1986	C		C1083	16.556		37.947		31.92
MOTA	1987	0		C1083	16.641	26.652			27.76
MOTA	1988	CB		C1083	18.446	28.006	40.398		30.28
MOTA	1989	CG	PRO	C1083	19.621	27.077	40.186	1.00	JU.20

ATOM	1990	CD	PRO	C1083	19.139	25.661	40.404	1.00	32.35
ATOM	1991	N	SER	C1084	15.816	28.558	38.933	1.00	31.68
ATOM	1992	CA	SER	C1084	15.199	29.032	37.705	1.00	31.93
ATOM	1993	С		C1084	16.210	30.014	37.080	1.00	31.48
ATOM	1994	0		C1084	17.144	30.514	37.733	1.00	29.39
ATOM	1995	CB		C1084	13.873	29.704	38.085	1.00	31.83
	1996	OG		C1084	14.132	31.022	38.595		32.90
ATOM			PHE	C1085	16.099	30.275	35.783		30.49
ATOM	1997	N	PHE	C1085	16.882	31.203	35.046		31.87
MOTA	1998	CA			16.332	32.620	35.612		35.04
ATOM	1999	С	PHE	C1085			35.568		34.20
ATOM	2000	0	PHE	C1085	17.778	33.269			29.72
MOTA	2001	CB		C1085	16.631	31.270	33.533		29.58
ATOM	2002	CG	PHE	C1085	17.113	30.035	32.829		
ATOM	2003	CD1	PHE	C1085	16.278	29.113	32.259		27.05
ATOM	2004	CD2	PHE	C1085	18.513	29.847	32.765		28.92
ATOM	2005	CE1	PHE	C1085	16.764	28.002	31.606		29.03
ATOM	2006	CE2	PHE	C1085	18.999	28.739	32.078		31.04
ATOM	2007	CZ	PHE	C1085	18.172	27.810	31.537		29.42
ATOM	2008	N	ALA	C1086	15.538	32.967	36.152	1.00	34.52
ATOM	2009	CA	ALA	C1086	15.461	34.251	36.811	1.00	36.36
MOTA	2010	С		C1086	16.330	34.297	38.053	1.00	35.05
ATOM	2011	0		C1086	16.940	35.370	38.305	1.00	33.03
ATOM	2012	CB		C1086	13.991	34.579	37.178	1.00	36.02
	2012	N		C1087	16.403	33.210	38.808	1.00	34.48
ATOM	2013	CA		C1087	17.187	33.187	40.043		37.34
ATOM				C1087	18.692	33.172	39.718		36.23
ATOM	2015	C			19.488	33.831	40.397		34.12
MOTA	2016	0		C1087			40.963		39.18
ATOM	2017	CB		C1087	16.898	31.991	41.372		41.60
ATOM	2018	CG		C1087	15.465	31.766			41.95
MOTA	2019	CD		C1087	15.181	30.507	42.185		
MOTA	2020	OE1		C1087	14.644	30.647	43.307		43.26
MOTA	2021	NE2	GLN	C1087	15.463	29.299	41.755		38.28
MOTA	2022	N	ILE	C1088	19.023	32.489	38.609		36.91
ATOM	2023	CA	ILE	C1088	20.421	32.470	38.143		34.98
MOTA	2024	С	ILE	C1088	20.850	33.891	37.730		36.64
ATOM	2025	0	ILE	C1088	21.994	34.310	37.999		38.60
ATOM	2026	CB	ILE	C1088	20.707	31.497	37.017	1.00	31.65
MOTA	2027	CG1	ILE	C1088	20.729	30.014	37.479	1.00	28.80
ATOM	2028	CG2		C1088	22.108	31.715	36.417	1.00	32.45
ATOM	2029	CD1		C1088	20.354	29.149	36.296	1.00	24.89
ATOM	2030.	N,		C1089	20.006	34.626	37.037	1.00	36.93
ATOM	2031	CA		C1089	20.288	36.010	36.641	1.00	38.78
ATOM	2032	C		C1089	20.504	36.934	37.835		39.65
		0		C1089	21.396	37.812	37.840	1.00	38.19
ATOM	2033			C1089	19.192	36.562	35.727		39.78
ATOM	2034	CB			19.421	37.938	35.087		41.64
MOTA	2035	CG		C1089		37.892	34.014		3.9.98
MOTA	2036	CD1		C1089	20.497		34.492		40.00
MOTA	2037			C1089	18.113	38.470			41.42
ATOM	2038	N		C1090	19.730	36.740	38.902		
MOTA	2039	CA		C1090	19.894	37.611	40.075		43.28
ATOM	2040	С		C1090	21.247	37.342	40.727		43.77
MOTA	2041	0	VAL	C1090	21.948	38.289	41.115		45.25
MOTA	2042	CB		C1090	18.759	37.424	41.081		44.41
MOTA	2043	CG1	VAL	C1090	19.139	38.123	42.387		45.32
ATOM	2044	CG2		C1090	17.422	37.989	40.595		45.38
ATOM	2045	N		C1091	21.634	36.074	40.924		43.36
ATOM	2046	CA		C1091	22.921	35.817	41.543	1.00	45.59

	_	_		~	24 244	26 257	10 (63	1.00 43.3	2 0
ATOM	2047	С		C1091	24.044	36.357	40.663		
ATOM	2048	0		C1091	24.987	36.921	41.231	1.00 43.0	
ATOM	2049	CB		C1091	23.056	34.332	41.946	1.00 49.5	
ATOM	2050	OG	SER	C1091	22.563	33.588	40.846	1.00 54.8	
ATOM	2051	N	LEU	C1092	23.971	36.337	39.335	1.00 38.9	
ATOM	2052	CA	LEU	C1092	25.098	36.849	38.570	1.00 37.8	84
ATOM	2053	C	LEU	C1092	25.118	38.383	38,604	1.00 39.8	82
ATOM	2054	0		C1092	26.207	38.957	38.627	1.00 35.9	95
ATOM	2055	CB		C1092	25.098	36.309	37.150	1.00 35.0	04
	2056	CG		C1092	25.301	34.789	36.982	1.00 33.8	
ATOM				C1092	24.655	34.383	35.662	1.00 33.0	
ATOM	2057				26.773	34.446	37.016	1.00 34.0	
MOTA	2058			C1092	23.942	39.039	38.597	1.00 41.4	
MOTA	2059	N		C1093			38.641	1.00 43.6	
ATOM	2060	CA		C1093	23.920	40.525		1.00 44.9	
ATOM	2061	C		C1093	24.527	41.074	39.936		
ATOM	2062	0		C1093	25.166	42.135	39.946	1.00 44.6	
MOTA	2063	CB	ASN	C1093	22.509	41.084	38.434	1.00 42.5	
ATOM	2064	CG	ASN	C1093	21.996	41.095	37.021	1.00 44.3	
ATOM	2065	OD1	ASN	C1093	20.771	41.140	36.726	1.00 46.0	00
ATOM	2066	ND2	ASN	C1093	22.859	41.098	36.023	1.00 43.5	94
ATOM	2067	N		C1094	24.374	40.336	41.043	1.00 46.3	27
ATOM	2068	CA		C1094	24.957	40.724	42.334	1.00 47.3	34
ATOM	2069	C		C1094	26.473	40.529	42.302	1.00 47.3	18
		0		C1094	27.308	41.386	42.683	1.00 48.	73
ATOM	2070			C1094	24.207	39.952	43.397	1.00 48.	
ATOM	2071	CB			24.600	40.135	44.831	1.00 53.	
MOTA	2072	CG		C1094			45.266	1.00 55.	
MOTA	2073	CD		C1094	25.893	39.506			
ATOM	2074	NE		C1094	25.811	38.266	46.057		
ATOM	2075	CZ		C1094	26.945	37.595	46.345	1.00 58.	
MOTA	2076	NH1		C1094	28.144	37.993	45.942	1.00 58.	
MOTA	2077	NH2	ARG	C1094	26.892	36.486	47.071	1.00 60.	
MOTA	2078	N	MET	C1095	26.945	39.465	41.654	1.00 43.	
ATOM	2079	CA	MET	C1095	28.378	39.288	41.439	1.00 41.	
ATOM	2080	С	MET	C1095	28.854	40.419	40.535	1.00 37.	
ATOM	2081	0	MET	C1095	29.993	40.855	40.670	1.00 39.	00
ATOM	2082	CB	MET	C1095	28.772	37.969	40.755	1.00 39.	83
ATOM	2083	CG		C1095	28.636	36.767	41.644	1.00 42.	24
	2084	SD		C1095	28.588	35.160	40.819	1.00 43.	52
ATOM					29.492	34.284	42.084	1.00 43.	
ATOM	2085	CE		C1095	28.128	40.770	39.489	1.00 38.	
ATOM	2086	N •		C1096		41.811	38.583	1.00 40.	
MOTA	2087	ĊA		C1096	28.592			1.00 45.	
MOTA	2088	C		C1096	28.726	43.159	39.300		
MOTA	2089	0		C1096	29.676	43.913	39.027	1.00 43.	
MOTA	2090	CB	LEU	C1096	27.705	41.881	37.363	1.00 38.	
MOTA	2091	CG	LEU	C1096	27.859	40.853	36.254	1.00 36.	
MOTA	2092	CD1	LEU	C1096	26.623	40.917	35.364	1.00 37.	
ATOM	2093	CD2	LEU	C1096	29.157	41.041	35.484	1.00 36.	
ATOM	2094	N	GLU	C1097	27.840	43.531	40.207	1.00 50.	71
ATOM	2095	CA		C1097	27.911	44.809	40.888	1.00 56.	
ATOM	2096	C		C1097	28.997	45.073	41.913	1.00 57.	95
ATOM	2097	0		C1097	29.115	46.249	42.308	1.00 58.	28
		CB		C1097	26.511	45.083	41.496	1.00 59.	
ATOM	2098			C1097	25.588	45.556	40.362	1.00 62.	
ATOM	2099	CG			25.880	46.999	39.984	1.00 65.	
ATOM	2100	CD		C1097		47.604	40.633	1:00 67.	
MOTA	2101	OE1		C1097	26.772			1.00 68.	
MOTA	2102	OE2		C1097	25.159	47.465	39.064	1.00 59.	
MOTA	2103	N	GLU	C1098	29.832	44.134	42.340	J. 00 39.	J-1

ATOM	2104	CA	GLU	C1098	30.923	44.413	43.251	1.00	62.30
ATOM	2105	С	GLU	C1098	32.317	44.135	42.709	1.00	61.47
ATOM	2106	0	GLU	C1098	32.699	43.098	42.165	1.00	63.11
ATOM	2107	CB	GLU	C1098	30.721	43.618	44.546	1.00	63.71
ATOM	2108	CG	GLU	C1098	30.447	42.141	44.289	1.00	64.85
ATOM	2109	CD	GLU	C1098	30.147	41.457	45.616	1.00	66.52
ATOM	2110	OE1	GLU	C1098	29.135	41.807	46.262	1.00	67.90
ATOM	2111	OE2		C1098	30.943	40.587	46.021	1.00	67.37
ATOM	2112	N		C1099	33.234	45.047	43.011	1.00	62.10
ATOM	2113	CA	ARG	C1099	34.637	45.044	42.675	1.00	60.00
ATOM	2114	С	ARG	C1099	35.404	43.736	42.782	1.00	58.76
ATOM	2115	0	ARG	C1099	36.433	43.655	42.072	1.00	60.07
ATOM	2116	CB	ARG	C1099	35.327	46.048	43.623	1.00	61.21
ATOM	2117	N		C1100	35.024	42.747	43.594	1.00	56.32
ATOM	2118	CA		C1100	35.843	41.536	43.624	1.00	55.34
ATOM	2119	C		C1100	35.881	40.863	42.258	1.00	53.59
ATOM	2120	0		C1100	35.083	41.060	41.366	1.00	53.08
ATOM	2121	CB		C1100	35.416	40.629	44.760	1.00	56.50
ATOM	2122	CG		C1100	34.580	39.418	44.451	1.00	57.25
ATOM	2123	CD		C1100	33.972	38.745	45.669	1.00	57.47
ATOM	2124	CE		C1100	34.923	37.780	46.342	1.00	59.43
ATOM	2125	NZ		C1100	34.265	36.502	46.768	1.00	59.87
ATOM	2126	N		C1101	36.911	40.037	42.055		53.38
ATOM	2127	CA		C1101	37.201	39.285	40.840		48.64
ATOM	2128	C		C1101	36.746	37.835	41.057		46.24
	2128	0		C1101	37.229	37.252	42.047	1.00	
ATOM	2130	CB		C1101	38.694	39.327	40.489		47.56
ATOM				C1101	39.019	40.606	39.939		46.44
MOTA	2131	OG1 CG2		C1101	39.094	38.266	39.469		45.84
MOTA	2132			C1101	35.884	37.335	40.167		41.77
ATOM	2133 2134	N CA		C1102	35.366	35.978	40.426	1.00	40.39
ATOM		CA		C1102	36.129	34.910	39.691	1.00	
ATOM	2135			C1102	36.056	33.736	40.095		42.76
ATOM	2136	O		C1102	33.858	35.730	40.100		38.06
ATOM	2137	CB		C1102	33.074	36.622	41.174	1.00	39.42
ATOM	2138	CG			32.812	37.986	41.085		40.49
ATOM	2139	CDI		C1102 C1102	32.609	35.932	42.296	1.00	
ATOM	2140	CD2			32.107	38.642	42.250		41.47
ATOM	2141	CE1		C1102	31.904	36.580	43.294	1.00	
ATOM	2142	CE2		C1102		37.936	43.168		42.72
ATOM	2143	CZ		C1102	31.672	38.602			42.88
ATOM	2144	ÓН		C1102	30.961		38.570		40.18
ATOM	2145	N		C1103	36.753	35.276	37.772		38.79
ATOM	2146	CA		C1103	37.580	34.400	37.561		40.96
MOTA	2147	C		C1103	38.963	35.061			41.22
MOTA	2148	0		C1103	39.070	36.083	36.864		39.03
MOTA	2149	CB		C1103	37.038	34.042	36.390		35.66
MOTA	2150			C1103	37.961	33.001	35.738		
MOTA	2151			C1103	35.597	33.463	36.439		36.18
ATOM	2152	N		C1104	39.993	34.484	38.154		41.19
ATOM	2153	CA		C1104	41.366	34.972	38.131		43.68
MOTA	2154	C		C1104	42.006	34.745	36.765		42.39
MOTA	2155	0		C1104	42.161	33.569	36.390		46.58
MOTA	2156	CB		C1104	42.212	34.184	39.143		44.69
MOTA	2157	CG		C1104	43.661	34.686	39.140		49.43
MOTA	2158			C1104	44.630	33.918	38.841		49.14
MOTA	2159	ND2		C1104	43.739	35.989	39.460		47.59
MOTA	2160	N	THR	C1105	42.337	35.771	36.035	1.00	38.71
	-								

ATOM	2161	CA	THR	C1105	42.937	35.664	34.723	1.00	
MOTA	2162	С	THR	C1105	44.389	36.105	34.806		37.67
ATOM	2163	0	THR	C1105	44.998	36.087	33.725		39.99
ATOM	2164	CB	THR	C1105	42.272	36.465	33.585		36.40
ATOM	2165	OGl	THR	C1105	42.212	37.883	33.885		38.39
ATOM	2166	CG2	THR	C1105	40.875	35.906	33.439		35.66
ATOM	2167	N	THR	C1106	44.918	36.386	35.989		39.77
ATOM	2168	CA	THR	C1106	46.306	36.915	36.002		43.19
MOTA	2169	C	THR	C1106	47.368	35.852	36.199		44.10
ATOM	2170	0	THR	C1106	47.129	34.854	36.896		45.27
ATOM	2171	CB	THR	C1106	46.445	38.022	37.058		47.23
ATOM	2172	OG1	THR	C1106	46.210	37.460	38.369		52.99
ATOM	2173	CG2	THR	C1106	45.403	39.104	36.949		45.90
MOTA	2174	И	LEU	C1107	48.527	35.962	35.531		42.56
ATOM	2175	CA	LEU	C1107	49.593	34.961	35.679		44.02
ATOM	2176	C·	LEU	C1107	50.420	35.168	36.946		46.85
ATOM	2177	0	LEU	C1107	50.888	36.295	37.127		49.56
MOTA	2178	CB	LEU	C1107	50.539	34.986	34.483		38.92
MOTA	2179	CG	LEU	C1107	49.970	34.778	33.106		37.89
ATOM	2180	CD1	LEU	C1107	51.073	34.991	32.082	-	39.13
ATOM	2181	CD2	LEU	C1107	49.400	33.350	32.925		34.26
ATOM	2182	N	TYR	C1108	50.605	34.176	37.803		49.68
ATOM	2183	CA	TYR	C1108	51.362	34.337	39.032		53.06
ATOM	2184	C	TYR	C1108	52.666	33.527	38.953	1.00	51.34
MOTA	2185	0	TYR	C1108	53.677	34.091	38.558		52.57
ATOM	2186	CB	TYR	C1108	50.645	33.861	40.328		54.61
ATOM	2187	CG	ΤYR	C1108	49.538	34.857	40.622		56.02
ATOM	2188	CD1	TYR	C1108	48.208	34.511	40.387		56.47
MOTA	2189	CD2	TYR	C1108	49.864	36.137	41.055	1.00	56.41
ATOM	2190	CEI	TYR	C1108	47.207	35.441	40.597	1.00	56.50
ATOM	2191	CE2	TYR	C1108	48.864	37.072	41.271		57.46
ATOM	2192	CZ	TYR	C1108	47.544	36.698	41.044	1.00	57.18
ATOM	2193	OH	TYR	C1108	46.577	37.639	41.267		58.64
ATOM	2194	N	GLU	C1109	52.585	32.293	39.382		50.07
MCTA	2195	CA	GLU	C1109	53.718	31.412	39.346	1.00	50.65
ATOM	2196	С	GLU	C1109	53.548	30.323	38.275	1.00	
ATOM	2197	0	GLU	C1109	54.587	29.965	37.719	1.00	
MOTA	2198	CB	GLU	C1109	53.958	30.616	40.626	1.00	53.87
ATOM	2199	CG	GLU		53.835	31.284	41.965	1.00	58.53
MOTA	2200	CD	GLU	C1109	54.896	32.352	42.202	1.00	60.45
ATOM	2201	OE1	GLU	C1109	56.092	31.991	42.113		61.68
ATOM	2202	OE2		C1109	54.482	33.514	42.480		61.69
ATOM	2203	N	LYS	C1110	52.345	29.727	38.224		47.13
ATOM	2204	CA	LYS	C1110	52.186	28.577	37.324		45.74
ATOM	2205	С		C1110	50.816	28.638	36.645		42.35
MOTA	2206	0	LYS	C1110	49.924	29.188	37.270		41.09
ATOM	2207	СВ		C1110	52.400	27.320	38.151		48.67
ATOM	2208	CG		C1110	52.564	26.005	37.440		53.26
ATOM	2209	CD	LYS	C1110	53.174	24.877	38.287		56.04
MOTA	2210	CE		C1110	54.685	25.087	38.489		58.45
MOTA	2211	NZ		C1110	55.447	23.870	38.929		58.97
ATOM	2212	N		3 C1111	50.666	28.295	35.359		37.18
ATOM	2213	CA		E C1111	49.325	28.434	34.823		36.07
MOTA	2214	C		E C1111	49.163	27.464	33.658		33.65
ATOM	2215	0		3 C1111	49.926	27.605	32.736		31.39
ATOM	2216	CB		E C1111	48.962	29.880	34.438		36.60
MOTA	2217	CG		E C1111	47.531	30.157	34.143	1.00	37.58
WION	221					•			

ATOM	2218	CD1	PHE	C1111	46.754	30.911	35.026	1.00	40.75
ATOM	2219	CD2	PHE	C1111	46.914	29.636	33.009		37.53
ATOM	2220	CE1	PHE	C1111	45.395	31.140	34.795	1.00	40.10
ATOM	2221	CE2	PHE	C1111	45.582	29.887	32.758	1.00	37.72
ATOM	2222	CZ	PHE	C1111	44.824	30. <i>6</i> 35	33.643	1.00	38.68
ATOM	2223	N	THR	C1112	48.115	26.664	33.719	1.00	28.79
ATOM	2224	CA	THR	C1112	47.683	25.828	32.634	1.00	31.45
MOTA	2225	Ç	THR	C1112	46.183	26.063	32.377	1.00	30.94
ATOM	2226	Ó	THR	C1112	45.468	26.129	33.377	1.00	29.01
ATOM'	2227	CB	THR	C1112	47.744	24.317	33.099	1.00	32.34
ATOM	2228	OG1	THR	C1112	49.026	24.124	33.723	1.00	35.99
MOTA	2229	CG2	THR	C1112	47.738	23.401	31.909		32.22
ATOM	2230	N	TYR	C1113	45.708	26.099	31.158		28.73
ATOM	2231	CA	TYR	C1113	44.309	26.076	30.840	1.00	28.29
ATOM	2232	С	TYR	C1113	43.709	24.640	30.942	1.00	31.34
ATOM	2233	0	TYR	C1113	44.388	23.615	30.928	1.00	25.50
MOTA	2234	CB	TYR	C1113	44.203	26.353	29.330	1.00	27.79
ATOM	2235	CG	TYR	C1113	44.656	27.778	29.016	1.00	29.11
ATOM	2236	CD1	TYR	C1113	45.753	27.954	28.181	1.00	30.15
ATOM	2237	CD2	TYR	C1113	44.032	28.897	29.544	1.00	27.99
ATOM	2238	CE1	TYR	C1113	46.199	29.241	27.868	1.00	31.57
ATOM	2239	CE2	TYR	C1113	44.460	30.198	29.201	1.00	30.17
ATOM	2240	CZ		C1113	45.571	30.354	28.371	1.00	30.26
ATOM	2241	ОН	TYR	C1113	46.068	31.611	28.045	1.00	30.20
ATOM	2242	N		C1114	42.398	24.636	31.120	1.00	29.12
ATOM	2243	CA		C1114	41.638	23.395	31.035	1.00	30.29
ATOM	2244	C		C1114	41.882	22.872	29.625	1.00	30.26
ATOM	2245	0		C1114	41.791	23.661	28.680	1.00	30.70
MOTA	2246	CB		C1114	40.127	23.678	31.199	1.00	30.91
ATOM	2247	N		C1115	42.135	21.544	29.515	1.00	28.43
ATOM	2248	CA		C1115	42.371	21.045	28.199	1.00	30.36
ATOM	2249	C		C1115	41.138	20.933	27.334	1.00	34.03
ATOM ·	2250	0		C1115	39.913	20.801	27.653	1.00	35.50
ATOM	2251	N		C1116	41.445	21.017	26.046	1.00	35.79
ATOM	2252	CA		C1116	40.554	20.877	24.918	1.00	41.16
ATOM	2253	C		C1116	40.987	19.601	24.199	1.00	48.93
ATOM		CB		C1116	40.660	21.990	23.877	1.00	40.53
ATOM	2255	CG1	ILE	C1116	40.332	23.381	24.419	1.00	39.34
ATOM	2256	CG2		C1116	39.797	21.709	22.629	1.00	40.56
ATOM	2257	CD1		Ć1116	40.844	24.462	23.474	1.00	39.48
ATOM	2258	Ņ		C1117	40.096		23.816	1.00	56.34
ATOM	2259	CA.		C1117	40.671	17.809	22.759		64.41
ATOM	2260	C		C1117	39.582	17.226	21.862	1.00	67.05
ATOM	2261	0		C1117	38.632	16.639	22.384	1.00	66.11
ATOM	2262	CB		C1117	41.552	16.679	23.243	1.00	66.12
ATOM	2263	CG		C1117	42.980	17.054	23.608		68.11
ATOM	2264			C1117	43.730	17.676	22.830	1.00	69.52
ATOM	2265			C1117	43.216	15.706	24.787		68.31
ATOM	2266	N		C1118	39.775	17.421	20.548		71.27
	2267	CA		C1118	38.800	16.948	19.563		75.06
ATOM ATOM	2268	CA		C1118	39.057	17.522	18.165		77.90
		CB		C1118	37.387	17.351	19.997		74.91
ATOM	2269	N		C1118	38.094	17.334	17.244		81.20
ATOM	2270	CA.		C1119	38.055	17.960	15.924		83.28
ATOM	2271	CA		C1119	37.335	17.232	14.787		84.56
ATOM	2272			C1119	37.333	16.898	13.740		85.44
ATOM	2273	O CB		C1119	39.493	18.300	15.476		83.21
ATOM	2274	CB	5EK	レイエエン	JJ.433	10.500	13.470		

ATOM	2275	N	ALA	C112	0	36.028	16.990	14.863	1.00	85.1
ATOM	2276	CA		C112		35.171	16.384	13.874	1.00	.84.8
ATOM	2277	C		C112		34.722		14.213	1.00	85.1
ATOM	2278	0		C112		33.876		13.396	1.00	85.3
ATOM	2279	CB		C112		35.714		12.447		84.8
TER	2217	CD			•					
HETATM	2280	Cl	IN3	D	1	27.737	34.907	12.224	1.00	40.8
HETATM		N2	IN3		1	28.220	33.661	12.185	1.00	40.6
HETATM		C3	IN3		1	27.362	32.629	12.233		40.6
			INS		1	25.970	32.787	12.323	1.00	
HETATM		C4			1	25.529		12.362		41.0
HETATM		C5	IN3			26.428		12.315		40.6
HETATM		N6	IN3		1			12.203	1.00	
HETATM		N8	INB		1	27.727				
HETATM		C9	IN3		1	26.517		12.312	1.00	
HETATM			IN3		1	25.373		12.348		44.6
HETATM	2291	NlS	IN3	D	1	24.231	34.490	12.467		43.9
HETATM	2292	C13	IN3	D	1	23.932	30.977	12.436	1.00	
HETATM	2293	C14	IN3	D	1	29.096	30.727	12.190	1.00	
HETATM	2294	C15	IN3	D	1	22.960	31.497	13.194	1.00	50.4
HETATM			IN3		1	21.667	30.935	13.250	1.00	51.2
HETATM					1	21.337	29.804	12.531	1.00	51.3
HETATM		C18	IN3		1	22.357	29.258	11.751	1.00	51.5
HETATM		C19			1	23.637		11.712	1.00	51.0
HETATM		N23			_ 1	20.099		12.581	1.00	
HETATM			IN3		1	19.137		13.847	1.00	
			IN3		1	19.809		15.058		54.8
HETATM						18.402		13.940		52.0
HETATM			IN3		1			13.554		59.1
HETATM			IN3		1	17.984				62.4
HETATM			IN3		1	17.058		12.515		63.4
HETATM			IN3		1	16.171		12.344		
HETATM			IN3		1	16.219		13.201		61.9
HETATM	2310	C31	IN3	D	1	17.146		14.233		61.1
HETATM	2311	C32	IN3	D	1	18.012		14.412		59.6
HETATM	2312	CL33	IN3	D	1	17.000	29.190	11.437		72.2
HETATM	2313	CL34	IN3	D	1	14.971	31.634	11.070		66.3
HETATM	2317	F38	IN3	D	1	22.188	28.164	10.970	1.00	50.2
HETATM		C3 9	IN3	D	1	29.429	30.465	13.689	1.00	41.5
HETATM		C40	IN3	D	1	30.71 <i>9</i>	29.713	13.975	1.00	41.7
HETATM			IN3		1	30.922		13.060	1.00	42.3
HETATM			IN3		1	30.611		11.579	1.00	44.1
HETATM		C43			1	29.231		11.376		43.7
HETATM			IN3		1	32.457		14.408		40.9
			INS			33.702		14.218		39.9
HETATM					1			14.047		40.9
HETATM		N54			1	34.865		12.858		41.5
HETATM			IN3		1	34.719		12.050		41.4
HETATM			IN3		1	33.437				41.2
HETATM			IN3		1	32.249		13.211		
HETATM TER	2346	C67	IN3	D	1	36.230		14.126		38.9
MOTA	2355	0	HOH	W	1	31.108		12.284		32.8
ATOM	2356	0	HOH	W	2	26.872		31.780		27.5
MOTA	2357	0	HOH	W	3	33.552	31.769	15.218		24.6
ATOM	2358	0	HOH		4	47.567	25.314	28.603		31.7
ATOM	2359	Ō	нон		5 -	2.429		30.925		30.3
ATOM	2360	Ö	HOH		7	33.908		25.246	100	32.7
ATOM	2361		нон		8	16.942		27.837	1.00	29.2
ATOM			HOH		9	41.194		31.243		27.5
a i i i jivi	2362	0	TIUII	71	_	~				

ATOM	2363	0	HOH W	10		3€.797	18.417	32.828	1.00	
ATOM	2364	0	HOH W	11		28.851	18.044	36.031	-	31.02
ATOM	2365	0	HOH W	12		15.509	25.207	20.371		36.36
ATOM	2366	0	HOH W	13		9.416	22.554	31.309		34.74
ATOM	2367	0	HOH W	14		24.583	41.060	16.124	1.00	
ATOM	2368	0	HOH W	15		7.357	41.316	15.797	1.00	
ATOM	2369	0	HOH W	16		40.089	39.018	35.286		43.58
ATOM	2370	0	HOH W	17		42.573	39.050	31.498		33.36
ATOM	2371	0	· HOH W	18		18.935	40.500	18.279		34.03
ATOM	2372	0	HOH W	19		13.481	27.068	41.482	1.00	45.27
ATOM	2373	Ō	HOH W	20		19.798	23.284	27.046	1.00	32.39
ATOM	2374	Ö	HOH W	22		13.750	26.546	29.238	1.00	33.61
ATOM	2375	0	HOH W	23		15.599	37.531	37.224	1.00	41.73
	2376	0	HOH W	24		45.162	20.392	30.028	1.00	51.51
MOTA	2377	0	HOH W	25		33.164	26.427	17.812	1.00	30.96
ATOM			HOH W	27		25.096	40.967	30.617	1.00	31.07
ATOM	2378	0	HOH W	28		44.306	23.553	33.708	1.00	44.45
ATOM	2379	0		29		14.071	17.249	33.601		32.43
MOTA	2380	0	HOH W			30.157	24.039	23.053		31.23
ATOM	2381	0	HOH W	30		21.111	43.623	15.597		74.93
MOTA	2382	0	HOH W	31			17.632	28.859		33.09
MOTA	2383	0	HOH W	33		19.327		39.267		41.89
MOTA	2384	0	HOH M	34		13.241	23.665			43.36
MOTA	2385	0	HOH W	35		31.519	44.776	18.549		52.30
MOTA	2386	0	HOH W	36		34.470	39.819	38.307		65.54
MOTA	2387	0	HOH W	37		19.740	20.765	27.651	_	
MOTA	2388	0	HOH W	38		44.917	36.546	20.426		59.90
ATOM	2389	0	HOH W	40 .		17.011	9.839	35.866		47.22
MOTA	2390	0	HOH W	41		38.945	20.370	30.087		25.50
ATOM	2391	0	HOH W	43		46.179	22.872	28.085		39.76
ATOM	2392	0	HOH W	44		33.414	46.660	18.569		52.18
ATOM	2393	0	HOH W	45		25.781	19.393	41.795		39.77
ATOM	2394	0	HOH W	46		25.879	14.880	30.825		26.83
ATOM	2395	0	HOH W	47		12.674	31.920	35.287		41.22
ATOM	2396	0	HOH W	48		36.038	20.519	22.613		40.75
ATOM	2397	ō	HOH W	49		9.232	35.876	28.692	1.00	40.36
MOTA	2398	Ö	HOH W	50		36.218	20.561	20.320	1.00	
ATOM	2399	Ö	HOH W	54		27.796	43.597	11.505		56.18
	2400	0	HOH W	56		43.257	28.114	21.417		40.56
MOTA	2401	0	HOH W	57		42.324	44.229	29.443	1.00	56.40
ATOM	2401	0	HOH W	58		31.439	22.023	21.413		32.43
MOTA			HOH W	59		49.313	32.007	37.867	1.00	46.71
ATOM	2403	Ó	HOH W	60		14.875	35.132	15.522	1.00	39.98
MOTA	2404		HOH W	62		20.722	5.005	29.475	1.00	39.73
MOTA	. 2405	0		63	-	45.974	43.256	29.290	1.00	41.18
MOTA	2406	0	HOH W	64		42.241	38.248	37.028		43.70
MOTA	2407	0	HOH W			32.550	42.002	39.832		36.99
ATOM	2408	0	HOH W	65			46.531	21.311		37.71
ATOM	2409	0	HOH W	67		39.110	20.905	21.953		53.77
MOTA	2410	0	HOH W	68		24.108	21.994	31.199		37.30
MOTA	2411	0	HOH W	69		1.460		34.770		51.34
MOTA	2412	0	HOH W	70		49.466	21.211	42.825		40.91
MOTA	2413	0	HOH W	71		36.003	21.023			54.10
ATOM	2414	0	HOH W	73		22.188	25.684	4.901		62.53
MOTA	2415	0	HOH W	74		39.079	46.157	42.492		47.79
MOTA	2416	0	HOH W	75		40.067	30.895	33.482		
MOTA	2417	0	HOH W	76		46.668	20.370	34.397		41.58
ATOM	2418	0	HOH W	78		11.682	32.018	39.657		44.53
MOTA	2419	0	HOH W	79		20.567	30.929	42.014	1.00	56.17

	0.400	_	TTOTT SI	80	22.313	16.019	43.949	1.00 47.96
ATOM	2420	0	HOH W					
ATOM	2421	0	HOH W	€3	33.379	32.767	48.175	1.00 44.70
ATOM	2422	0	HOH W	84	28.448	47.110	11.329	1.00 72.32
ATOM	2423	0	HOH W	85	11.988	40.527	14.366	1.00 57.96
ATOM	2424	0	HOH W	86	11.100	37.338	30.951	1.00 55.75
ATOM	2425	0	HOH W	87	32.424	25.662	10.927	1.00 60.85
ATOM	2426	0	HOH W	88	40.553	21.024	36.981	1.00 56.71
				89	20.806	40.663	41.692	1.00 49.92
ATOM	2427	0	HOH W					
MCTA	2428	0	HOH W	90	23.126	21.071	24.679	1.00 28.98
ATOM	2429	0	HOH W	91	21.847	27.668	22.076	1.00 39.04
ATOM	2430	0	HOH W	92	17.442	12.662	22.568	1.00 42.46
ATOM	2431	0	HOH W	94	10.365	22.725	38.862	1.00 42.24
ATOM	2432	0	HOH W	96	12.915	13.110	35.504	1.00 43.57
ATOM	2433	0	HOH W	97	11.437	18.561	35.709	1.00 49.64
		0	HOH W	98	18.202	17.009	21.807	1.00 60.40
ATOM	2434							1.00 44.65
MOTA	2435	O	HOH W	99	13.090	22.057	22.029	
ATOM	2436	0	HOH W	100	13.782	3.003	30.101	1.00 45.94
MOTA	2437	0	HOH W	101	37.114	30.510	14.091	1.00 54.40
ATOM	2438	0	HOH W	102	39.281	19.995	32.505	1.00 38.67
ATOM	2439	0	HOH W	103	19.163	41.538	33.907	1.00 49.16
ATOM	2440	0	HOH W	105	8.161	24.650	30.444	1.00 38.87
				106	19.044	34.146	43.247	1.00 36.17
ATOM	2441	0	HOH W					1.00 47.78
MOTA	2442	0	HOH W	107	52.411	29.944	20.957	
MOTA	2443	0	HOH W	109	40.926	37.945	21.207	1.00 57.61
ATOM	2444	0	HOH W	110	23.910	22.805	45.525	1.00 56.43
ATOM	2445	0	HOH W	111	23.876	43.384	19.810	1.00 29.77
ATOM	2446	0	HOH W	112	6.751	36.672	21.579	1.00 62.88
ATOM	2447	0	HOH W	113	43.463	27.806	35.372	1.00 49.32
		0	HOH W	114	33.230	32.283	12.794	1.00 37.37
ATOM	2448				39.120	18.996	40.839	1.00 82.49
MOTA	2449	0 .	HOH W	115				
ATOM	2450	0	HOH W	116	17.786	13.772	37.357	1.00 49.91
ATOM	2451	0	HOH W	117	20.655	9.465	38.822	1.00 43.82
MOTA	2452	0	HOH W	118	7.544	39.794	24.678	1.00 56.43
ATOM	2453	0	HOH W	119	34.363	21.476	9.358	1.00 64.39
ATOM	2454	0	HOH W	120	14.923	37.925	31.147	1.00 51.98
ATOM	2455	0	HOH W	121	14.386	25.644	36.407	1.00 47.28
				122	33.578	21.114	23.402	1.00 36.98
MOTA	2456	0	HOH W					
MOTA	2457	0	HOH W		42.616	19.765	31.993	
ATOM	2458	0	HOH W	124	0.324	31.122	29.775	1.00 85.67
ATOM	2459	0	HOH W	125	44.223	21.073	33.792	1.00 58.84
ATOM	2460	Ò	HOH W	126	13.220	29.507	33.957	1.00 42.26
ATOM	2461	0	HOH W	127	24.661	6.250	44.308	1.00 53.58
ATOM	2462	0	HOH W		37.555	26.025	18.301	1.00 50.21
			HOH W		29.409	15.521	23.790	1.00 37.37
ATOM	2463	0						1.00 40.19
ATOM	2464	0	HOH W		37.198	41.960	35.518	
ATOM	2465	0	HOH W		38.741	36.516	21.186	1.00 31.33
ATOM	2466	0	HOH W	136	20.039	45.048	11.998	1.00 67.09
MOTA	2467	0	HOH W	137	44.865	39.383	33.992	1.00 42.87
MOTA	2468	0	HOH W		47.499	41.543	34.693	1.00 41.95
MOTA	2469	Ō	HOH W		14.470	39.588	29.214	1.00 39.88
			HOH W		25.148	21.128	18.186	1.00 55.16
ATOM	2470	0						1.00 56.90
ATOM	2471	0	HOH W		19.506	9.850	24.839	
ATOM	2472	0	HOH W		39.082	7.569	29.845	1.00 50.85
MOTA	2473	0	HOH W		37.915	8.580	37.497	1.00 73.18
ATOM	2474	0	HOH W	144	37.234	11.075	36.059	1.00 55.17
MOTA	2475	0	HOH W		18.909	16.767	43.975	1.00 45.07
ATOM	2476	Ō	HOH W		53.564	36.062	20.842	1.00 35.39
MI ON	æ-3 / U	~	11011 11		. 22.201			

ATOM 2477 O HOH W 147 21.172 42.848 12.347 1.00 52.85

TER

FIG. 5RR

WO 01/72778 PCT/US01/08853

ATOM	1	N_1			818	77.717	45.877	1.677	1.00100.00
ATOM	2	CA	VAL	Ŋ	818	76.698	46.966	1.561	1.00100.00
ATOM	3	C	VAL	A	818	75.278	46.411	1.674	1.00100.00
ATOM	4	O	VAL	Ą	818	74.803	46.162	2.781	1.00100.00
ATOM	5	CB	VAL	A	818	76.875	47.697	0.239	1.00 68.23
ATOM	9	N	LEU	Α	819	74.617	46.228	0.530	1.00100.00
MOTA	10	CA	LEU	A	819	73.248	45.707	0.456	1.00100.00
ATOM	11	С	LEU			72.629	45.997	-0.918	1.00100.00
ATOM	12	0	LEU			71.622	46.689	-1.003	1.00100.00
ATOM	13	CB	LEU			72.369	46.345	1.536	1.00100.00
ATOM	14	CG	LEU			76.873	46.053	1,525	1.00100.00
ATOM	15	CD1	LEU			70.573	44.975	2.511	1.00100.00
ATOM		CD2	LEU			70.078		1.865	
	16						47.283		1.00100.00
ATOM	18	И	ASP			73.234	45.474	-1.984	1.00100.00
ATOM	19	CA	ASP			72.753	45.676	-3.359	1.00100.00
MOTA	20	C			820	71.292	46.104	-3.464	1.00100.00
ATOM	21	0	ASP			70.399	45.421	-2.983	1.00100.00
MOTA	22	CB			820	72.969	44.396	-4.177	1.00 99.21
ATOM	23	CG	ASP	A	820	71.872	44.160	-5.218	1.00 99.21
ATOM	24	OD1	ASP	А	820	71.584	42.982	-5.509	1.00 99.21
MOTA	25	OD2	ASP	A	820	71.303	45.140	-5.750	1.00 99.21
ATOM	27	N	TRP	A	821	71.050	47.227	-4.126	1.00 93.11
ATOM	28	CA	TRP	Α	821	69.694	47.719	-4.268	1.00 93.11
MOTA	29	C	TRP	A	821	68.716	46.617	-4.650	1.00 93.11
ATOM	30	0	TRP	Ą	821	67.904	46.199	-3.849	1.00 93.11
ATOM	31	CB	TRP	A	821	69.639	48.863	-5.283	1.00 97.87
ATOM	32	CG	TRP			68.703	49.927	-4.847	1.00 97.87
ATOM	33	CD1			821	68.605	50.452	-3.597	1.00 97.87
ATOM	34	CD2			821	67.667	50.542	-5.622	1.00 97.87
ATOM	35	NEL			821	67.567	51.352	-3.537	1.00 97.87
ATOM	36	CE2			821	66.974	51.429	-4.766	1.00 97.87
ATOM	37	CE3			821	67.255	50.429	-6.949	1.00 97.87
ATOM	38	CZ2			821	65.897	52.197	-5.193	1.00 97.87
ATOM	39	CZ3	TRP			66.180	51.192	-7.374	1.00 97.87
ATOM	40	CH2	TRP			65.512	52.065	-6.496	1.00 97.87
			ASN						1.00100.00
MOTA	43	N				68.798	46.140	-5.896	
ATOM	44	CA	ASN			67.901	45.077	-6.364	1.00100.00
ATOM	45	C	ASN			67.686	43.985	-5.314	1.00100.00
ATOM	46	0	ASN			66.545	43.614	-5.030	1.00100.00
ATOM	47	,CB	ASN			68.462	44.410	-7.624	1.00 56.29
ATOM	48	'CG	ASN			68.707	42,917	-7.427	1.00 56.29
ATOM	49		ASN			69.755	42.499	-6.902	1.00 56.29
ATOM	50	ND2	ASN			67.739	42.114	-7.837	1.00 56.29
ATOM	54	N	ASP	Α	823	68.799	43.469	-4.776	1.00 99.96
ATOM	55	CA	ASP	Α	823	68.825	42.413	-3.756	1.00 99.96
ATOM	56	С	ASP	A	823	67.823	42.654	-2.650	1.00 99.96
ATOM	57	0	ASP	A	823	67.545	41.765	-1.846	1.00 99.96
MOTA	58	CB	ASP	Α	823	70.218	42.308	-3.153	1.00100.00
ATOM	60	N	ILE	A	824	67.303	43.875	-2.605	1.00 80.08
ATOM	61	CA	ILE	A	824	66.315	44.270	-1.616	1.00 80.08
ATOM	[©] 62	С	ILE			64.958	44.392	-2.274	1.00 80.08
ATOM	63	0	ILE			64.703	45.359	-2.973	1.00 80.08
ATOM	64	CB	ILE			66.651	45.641	-0.992	1.00100.00
ATOM	65	CG1				67.806	45.506	0.009	1.00100.00
ATOM	66		ILE			65.417	46.206	-0.307	1.00100.00
ATOM	67		ILE			69.048	44.906	-0.577	1.00100.00
	- /					55.510			

PCT/US01/08853

ATOM	69	N	LYS			64.098	43.404	-2.036	1.00 99.67
MOTA	70	CA			825	62.735	43.391	-2.580	1.00 99.67
MOTA	71	С			825	61.938	44.544	-1.938	1.00 99.67
MOTA	72	0			825	61.130	44.334	-1.027	1.00 99.67
MOTA	73	CB	LYS	Ą	825	62.056	42.021	-2.286	1.00 63.59
ATOM	75	N	PHE	A	826	62.171	45.762	-2.420	1.00 69.32
ATOM	76	CA			826	61.502	46.933	-1.875	1.00 69.32
MCTA	77	С	PHE	Ą	826	59.977	46.823	-1.994	1.00 69.32
ATOM	78	0	PHE	A	826	59.500	45.922	-2.684	1.00 69.32
MOTA	79	CB	PHE	A	826	62.060	48.158	-2.587	1.00 99.11
ATOM	80	CG	PHE	A	826	63.558	48.351	-2.376	1.00 99.11
MOTA	81	CD1	PHE	Α	826	64.470	47.961	-3.343	1.00 99.11
ATOM	82	CD2	PHE	A	826	64.045	48.959	-1.215	1.00 99.11
ATOM	83	CEl	PHE	Α	826	65.839	48.178	-3.157	1.00 99.11
ATOM	84	CE2	PHE	Α	826	65.418	49.179	-1.027	1.00 99.11
MOTA	85	CZ	PHE	A	826	66.307	48.791	-1.995	1.00 99.11
ATOM	87	N	GLN			59.222	47.691	-1.307	1.00 70.60
ATOM	88	CA	GLN	A	827	57.728	47.659	-1.347	1.00 70.60
ATOM	89	C	GLN		827	57.010	49.023	-1.173	1.00 70.60
ATOM	90	0	GLN			57.401	49.946	-1.874	1.00 70.60
ATOM	91	CB	GLN			57.178	46.624	-0.337	1.00100.00
MOTA	92	CG	GLN			57.627	45.151	-0.598	1.00100.00
ATOM	93	CD	GLN			56.797	44.413	-1.665	1.00100.00
ATOM	94	OE1	GLN			55.642	44.036	-1.433	1.00100.00
	95	NE2	GLN			57,396	44.196	-2.831	1.00100.00
ATOM		NEZ			828	56.000	49.149	-0.278	1.00 99.97
ATOM	99		ASP			55.218	50.418	-0.055	1.00 99.97
MOTA	100	CA			828	55.490	51.355	1.163	1.00 99.97
ATOM	101	C			828	56.284	51.045	2.038	1.00 99.97
ATOM	102	0			828	53.723	50.128	0.010	1.00100.00
ATOM	103	CB				53.723	50.839	1.214	1.00100.00
ATOM	104	CG			828		52.037	1.109	1.00100.00
ATOM	105	OD1	ASP			52.702		2.280	1.00100.00
ATOM	106	OD2	ASP			52.834	50.215	1.212	1.00100.00
MOTA	108	N	VAL			54.787	52.494		1.00100.00
ATOM	109	CA	VAL			54.900	53.488	2.295	
ATOM	110	C	VAL			54.384	53.014	3.639	1.00100.00
ATOM	111	0	VAL			53.683	52.012	3.703	1.00100.00
MOTA	112	CB	VAL			54.162	54.786	1.912	1.00100.00
ATOM	114	N	ILE			54.726	53.770	4.695	1.00 76.50
ATOM	115	CA	ILE			54.342	53.500	6.102	1.00 76.50
ATOM	116	C'	ILE	A	830	53.685	54.717	6.782	1.00 76.50
MOTA	117	0	ILE	A	830	52.464	54.830	6.808	1.00 76.50
MOTA	118	CB	ILE			55.571	53.069	6.979	1.00 83.02
ATOM	119	CG1	ILE	Α	830	55.888	51.607	6.755	1.00 83.02
ATOM	120	CG2	ILE	Ą	830	55.269	53.185	8.437	1.00 83.02
ATOM	121	CD1	ILE	Ā	830	57.118	51.163	7.437	1.00 83.02
MOTA	123	N	GLY	A	831	54.492	55.626	7.327	1.00100.00
ATOM .	124	CA	GLY	Α	831	53.930	56.779	8.009	1.00100.00
ATOM	125	C	GLY			54.664	58.090	7.811	1.00100.00
ATOM	126	0	GLY			54.659	58.963	8.677	1.00100.00
ATOM	128	N	GLU			55.301	58.216	6.660	1.00 46.31
ATOM	129	CA	GLU			56.045	59.418	6.271	1.00 46.31
ATOM	130	C	GLU			57.586	59.215	6.265	1.00 46.31
ATOM	131	0			832	58.101	58.149	5.892	1.00 46.31
	132	CB			832	55.668	60.618	7.158	1.00100.00
ATOM	133	CG			832	54.587	61.531	6.557	1.00100.00
ATOM					832	54.197	62.702	7.473	1.00100.00
MOTA	134	CD	٠ ٢٠٠٠	M	2. د ن	ンモ・エント	52.752		

12	1 /	11	7	1
13	\mathbf{I}	1	1	1

			CT 11 7		227	52.980	62.942	7.660	1.00100.00
ATOM	135	OEl	GLU A				63.387	8.002	1.00100.00
ATOM	136		GLU A			55.107	-	6.650	1.00100.00
ATOM	138	N	GLY A			58.330	60.239	6.672	1.00100.00
ATOM	139	CA	GLY A			59.762	60.092		1.00100.00
ATOM	140	С	GLY A			60.311	61.410	7.090	
ATOM	141	0	GLY A			60.675	61.601	8.251	1.00100.00
ATOM	143	N	ASN A			60.339	62.327	6.130	1.00 87.28
ATOM	144	CA	ASN A			60.829	63.680	6.360	1.00 87.28
MOTA	145	C	ASN'			62.306	63.520	6.639	1.00 87.28
ATOM	146	0	ASN A	ž {	334	62.684	62.859	7.613	1.00 87.28
ATOM	147	CB	ASN A	<i>Y</i> {	834	60.114	64.306	7.570	1.00100.00
ATOM	148	CG	ASN A	} .	834	60.641	65.685	7.932	1.00100.00
ATOM	149	OD1	ASN A	. £	834	61.822	65.865	8.248	1.00100.00
ATOM	150	ND2	ASN A	A 8	834	59.751	66.671	7.903	1.00100.00
ATOM	154	N	PHE A	i i	835	63.131	64.125	5.782	1.00 68.16
ATOM	155	CA			835	64.561	64.036	5.925	1.00 68.16
ATOM	156	C			835	64.700	62.693	6.578	1.00 68.16
ATOM	157	0			835	65.138	62.586	7.733	1.00 68.16
	158	CB			835	65.073	65.139	6.840	1.00 80.78
ATOM		CG			835	65.317	66.447	6.135	1.00 80.78
ATOM	159				835	64.950	67.651	6.733	1.00 80.78
ATOM	160	CD1				65.931	66.475	4.877	1.00 80.78
MOTA	161	CD2			835	65.190	68.856	6.097	1.00 80.78
MOTA	162	CE1	PHE A				67.689	4.226	1.00 80.78
ATOM	163	CE2	PHE A			66.178	68.881	4.838	1.00 80.78
ATOM	164	CZ	PHE A			65.805	61.691	5.832	1.00100.00
ATOM	166	N	GLY A			64.226		6.257	1.00100.00
ATOM	167	CA	GLY A			64.252	60.304	5.914	1.00100.00
ATOM	168	C	GLY A			62.962	59.578	6.792	1.00100.00
ATOM	169	0	GLY A			62.314	59.012		1.00 88.37
ATOM	171	N	GLN 2			62.599	59.565	4.636	1.00 88.37
MOTA	172	CA	GLN I			61.356	58.915	4.214	
ATOM	173	С	GLN 3			61.114	57.472	4.701	1.00 88.37
MOTA	174	0	GLN :			61.739	56.544	4.186	
ATOM	175	CB	GLN :			61.206	58.983	2.666	=
ATOM	176	CG	GLN :	A.	837	62.424	58.531	1.876	1.00 70.59
ATOM	177	CD	GLN .			62.484	59.097	0.437	1.00 70.59
ATOM	178	OE1	GLN .	A	837	63.560	59.517	-0.041	1.00 70.59
ATOM	179	NE2	GLN .	A	837	61.327	59.088	-0.263	1.00 70.59
ATOM	183	N	VAL .	A	838	60.211	57.302	5.687	1.00 63.61
ATOM	184	CA	VAL .	Ą	838	59.835	55.959	6.213	1.00 63.61
ATOM	185	Ċ.	VAL .	A	838	58.710	55.222	5.481	1.00 63.61
MCTA	186	Ö	VAL	Α	838	57.525	55.380	5.807	1.00 63.61
ATOM	187	CB	VAL	Α	838	59.384	55.939	7.692	1.00 61.77
ATOM	188		VAL	Α	838	60.243	54.967	8.446	1.00 61.77
ATOM	189	CG2				59.418	57.290	8.292	1.00 61.77
ATOM	191	N	LEU			59.114	54.397	4.520	1.00100.00
ATOM	192	CA	LEU			58.201	53.584	3.738	1.00100.00
ATOM	193	C	LEU			58.399	52.107	4.098	1.00100.00
ATOM	194	0	LEU			59.473	51.694	4.507	1.00100.00
		CB	LEU			58.464	53.783	2.244	1.00100.00
ATOM	195	CG	LEU			58.836	55.168	1.719	1.00100.00
ATOM	196		LEU			58.069	56.233	2.461	1.00100.00
MOTA	197	CD1				60.323	55.367	1.853	1.00100.00
MOTA	198		LYS			57.352	51.315	3.969	1.00 58.16
ATOM	200	N				57.459	49.901	4.259	1.00 58.16
ATOM	201	CA	LYS			58.091	49.174	3.081	1.00 58.16
MOTA	202	C	LYS				49.497	1.943	1.00 58.16
MOTA	203	0	LYS	A	040	57.837	~J.~3/		1.00 35.24

MOTA ATOM ATOM MOTA 208 NZ LYS A 840 MOTA MOTA MOTA MOTA MOTA ATOM MOTA ATOM MOTA MOTA MOTA MOTA MOTA MOTA ATOM MOTA ATOM MOTA ATOM MOTA ATOM MOTA MOTA MOTA MOTA MOTA MOTA ATOM MOTA ATOM MOTA ATOM ATOM 261 CA LEU A 848 65.670 35.542 3.212 1.00 93.78
ATOM 262 C LEU A 848 65.095 36.935 2.949 1.00 93.78
ATOM 263 O LEU A 848 65.825 37.878 2.662 1.00 93.78
ATOM 264 CB LEU A 848 66.215 35.504 4.654 1.00100.00
ATOM 265 CG LEU A 848 66.931 36.752 5.223 1.00100.00
ATOM 266 CD1 LEU A 848 65.937 37.849 5.552 1.00100.00
ATOM 267 CD2 LEU A 848 67.719 36.377 6.472 1.00100.00
ATOM 269 N ARG A 849 63.781 37.063 3.070 1.00 80.14
ATOM 270 CA ARG A 849 63.127 38.347 2.855 1.00 80.14
ATOM 271 C ARG A 849 62.191 38.669 4.013 1.00 80.14
ATOM 272 O ARG A 849 61.629 37.748 4.612 1.00 80.14

				_		co 200	20 205	1 5 6 7	1 00 00 00
ATOM	273	CB	ARG			62.320	38.327	1.561	1.00 99.23
ATOM	274	CG	ARG	A	873	61.390	37.148	1.452	1.00 99.23
ATOM	275	CD	ARG	A	849	60.021	37.392	2.081	1.00 99.23
	276	NE	ARG			59.022	36.456	1.540	1.00 99.23
MOTA								2.050	1.00 99.23
ATOM	277	CZ	ARG			58.743	35.268		
ATOM	278	NHl	ARG	A.	849	59.379	34.826	3.127	1.00 99.23
ATOM	279	NH2	ARG	A	849	57.830	34.504	1.475	1.00 99.23
ATOM	286	N	MET	A	850	62.041	39.958	4.350	1.00 26.65
		CA			850	61.122	40.332	5.425	1.00 26.65
ATOM	287								
ATOM	288	С	MET			60.680	41.820	5.406	_
ATOM	289	0	MET	A	850	60.502	42.468	4.345	1.00 26.65
ATOM	290	CB	MET	A	850	61.743	39.999	6.780	1.00 99.56
ATOM	291	CG			850	63.156	39.475	6.689	1.00 99.56
					850	64.190	40.566	5.745	1.00 99.56
ATOM	292	SD							
ATOM	293	CE			350	65.522	`40.771	6.902	1.00 99.56
ATOM	295	N	ASP	Α	851	60.515	42.341	6.612	1.00 27.82
ATOM	296	CA	ASP	A	851	60.156	43.721	6.812	1.00 27.82
ATOM	297	C	ASP			61.331	44.534	7.280	1.00 27.82
							44.144	8.255	1.00 27.82
ATOM	298	0			851	62.056			
MOTA	299	CB	ASP	A	851	59.124	43.799	7.903	1.00 16.75
ATOM	300	CG	ASP	A	851	58.382	42.570	7.998	1.00 16.75
ATOM	301	OD1	ASP	Ά	851	58.147	42.049	6.837	1.00 16.75
ATOM		OD2	ASP			58.079	42.189	9.190	1.00 16.75
	302								1.00 37.08
ATOM	304	N	ALA			61.420	45.691	6.635	
MOTA	305	CA	ALA	A	852	62.400	46.719	6.887	1.00 37.08
ATOM	306	С	ALA	A	852	61.643	48.050	6.795	1.00 37.08
ATOM	307	0	ALA	A	852	60.764	48.247	5.950	1.00 37.08
	308	СВ			852 .	63.471	46.663	5.835	1.00100.00
ATOM							48.986	7.663	1.00 97.32
MOTA	310	N	ALA			61.955			
MOTA	311	CA	ALA	A	853	61.303	50.269	7.528	1.00 97.32
ATOM	312	C	ALA	A	853	62.427	51.046	6.852	1.00 97.32
ATOM	313	0	ALA	Δ	853	63.501	51.201	7.415	1.00 97.32
		CB	ALA			60.947	50.824	8.895	1.00 15.46
MOTA	314								1.00 84.85
MOTA	316	N	ILE			62.187	51.469	5.617	
ATOM	317	CA	ILE	Α	854	63.178	52.179	4.810	1.00 84.85
MOTA	318	С	ILE	A	854	63.221	53.682	4.985	1.00 84.85
ATOM	319	0	ILE	A	854	62.197	54.334	5.006	1.00 84.85
	320	СВ	ILE			62.961	51.895	3.315	1.00 99.86
MOTA								2.948	1.00 99.86
ATOM	321	CG1	ILE			63.540	50.538		
ATOM	322	CG2	ILE	\mathbf{A}	854	63.622	52.963	2.474	1.00 99.86
ATOM	323	CD1	ILE	A	854	63.707	49.610	4.109	1.00 99.86
ATOM	325	Ŋ	LYS	A.	855	64.426	54.228	5.095	1.00100.00
			LYS			64.602	55.666	5.249	1.00100.00
MOTA	326	CA						4.602	1.00100.00
ATOM	327	C	LYS			65.867	56.179		
ATOM	328	0	LYS	Α	855	66.915	55.567	4.710	1.00100.00
ATOM	329	CB	LYS	Α	855	64.640	56.058	6.721	1.00100.00
ATOM	330	CG	LYS	A	855	65.352	57.373	6.977	1.00100.00
					855	64.912	57.985	8.283	1.00100.00
MOTA	331	CD							1.00100.00
MOTA	332	CE			855	65.371	57.143	9.459	
MOTA	333	NZ	LYS	A	855	66.801	57.366	9.812	1.00100.00
ATOM	338	N	ARG	Α	856	65.751	57.314	3.927	1.00100.00
ATOM	339	CA			856	66.881	57.980	3.282	1.00100.00
					856	66.403	59.192	2.543	1.00100.00
MOTA	340	C							1.00100.00
ATOM	341	0			856	65.575	59.088	1.631	
ATOM	342	CB	ARG	Α	856	67.602	57.089	2.279	1.00100.00
ATOM	343	CG	ARG	Α	856	68.637	57.868	1.462	1.00100.00
ATOM	344	CD			856	68.118	58.410	0.090	1.00100:00
AT ON	2-2-3	22			J				

				70	256	68.946	59.472	-0.512	1,00100.00
ATOM	345	NE	ARG				59.819	-1.801	1.00100.00
MOTA	346	CZ	ARG			68.938			1.00100.00
MOTA	347		ARG			68.145	59.210	-2.674	
ATOM	348-	NH2	ARG			69.744	60.783	-2.222	1.00100.00
ATOM	355	N	MET			66.951	60.337	2.922	1.00 39.23
ATOM	356	CA	MET	A	857	66.567	61.616	2.275	1.00 39.23
MOTA	357	С	MET	A	857	67.634	62.754	2.130	1.00 39.23
ATOM	358	0	MET	Ą	857	68.221	63.225	3.157	1.00 39.23
ATOM	359	CB	MET	A	857	65.320	62.179	2.983	1.00100.00
ATOM	360	CG	MET		857	64.305	62.877	2.092	1.00100.00
•	361	SD	MET		857	63.851	64.409	2.908	1.00100.00
ATOM					857	61.992	64.355	2.935	1.00100.00
MOTA	362	CE			857	67.842	63.172	0.963	1.00100.00
ATOM	363					73.761	67.110	-3.548	1.00 99.95
ATOM	365	N	ASP		864			-4.360	1.00 99.95
ATOM	366	CA			864	74.976	66.819		1.00 99.95
MOTA	367	C	ASP		864	76.224	67.493	-3.781	
ATOM	368	0	ASP	A	864	77.068	68.001	-4.530	1.00 99.95
MOTA	369	CB	ASP	P.	864	74.765	67.261	-5.839	1.00 2.00
ATOM	373	N	ASP	A	865	76.338	67.492	-2.453	1.00100.00
ATOM	374	CA	ASP	A	865	77.486	68.080	-1.760	1.00100.00
ATOM	375	C	ASP		865	77.219	68.112	-0.267	1.00100.00
	376	0	ASP		865	77.444	69.131	0.391	1.00100.00
ATOM					865	77.720	69.454	-2.255	1.00 53.42
MOTA	377	CB				76.752	66.983	0.263	1.00100.00
ATOM	379	N	HIS		866		66.853	1.678	1.00100.00
MOTA	380	CA,	HIS		866	76.397			1.00100.00
ATOM	381	С	HIS		866	76.696	65.441	2.178	1.00100.00
MOTA	382	0	HIS	Ą		75.859	64.777	2.805	
ATOM	383	CB	HIS	A	866	74.905	67.144	1.848	1.00100.00
ATOM	384	CG	HIS	Α	866	74.036	66.378	0.896	1.00100.00
ATOM	385	ND1	HIS	A	866	73.693	66.857	-0.350	1.00100.00
ATOM	386	CD2	HIS	Α	866	73.459	65.158	1.003	1.00100.00
ATOM	387	CE1				72.943	65.965	-0.970	1.00100.00
ATOM	388	NE2	HIS			72.787	64.925	-0.170	1.00100.00
		N			867	77.912	64.998	1.913	1.00100.00
ATOM	392				867	78.335	63.673	2.300	1.00100.00
MOTA	393	CA				78.856	63.654	3.738	1.00100.00
MOTA	394	C	ARG				63.597	3.985	1.00100.00
MOTA	395	0			867	80.061			1.00 99.71
MOTA	396	CB			867	79.393	63.206	1.310	1.00 99.71
ATOM	397	CG	ARG		867	79.185	63.783	-0.098	
MOTA	398	CD	ARG	A	867	79.695	65.213	-0.213	1.00 99.71
MOTA	399	ŃΕ	ARG	A	867	81.116	65.305	0.115	1.00 99.71
ATOM	400	· CZ	ARG	A.	867	81.604	65.381	1.351	1.00 99.71
ATOM	401	NH1			867	80.785	65.378	2.396	1.00 99.71
ATOM	402	NH2			867	82.919	65.450	1.540	1.00 99.71
MOTA	409	N			868	77.920	63.713	4.683	1.00 88.85
		CA			868	78.239	63.706	6.112	1.00 88.85
ATOM	410				868	77.969	62.278	6.646	1.00 88.85
ATOM	411	С				78.558	61.850	7.655	1.00 88.85
MOTA	412	0			868		64.758	6.870	1.00 67.57
MOTA	413	CB			868	77.368			1.00 67.57
ATOM	414	CG			868	77.674	66.231	6.460	1.00 67.57
MOTA	415	OD1	. ASP			78.671	66.496	5.753	
ATOM	416	OD2			868	76.914	67.142	6.852	1.00 67.57
ATOM	418	N	PHE	: A	869	77.097	61.545	5.943	1.00100.00
ATOM	419	CA			869	76.719	60.176	6.322	1.00100.00
MOTA	420	C			869	77.809	59.128	6.086	1.00100.00
	421	0			869	78.433	59.091	5.017	1.00100.00
ATOM					869	75.431	59.745	5.595	1.00 98.24
MOTA	422	CB	rnn	٠			· ·		

3 = 34	423	CG	PHE A	869	75.346	60.207	4.164	1.00 98.24
MCTA					74.434		3.789	1.00 98.24
ATOM	424	CD1	PHE A			61.186		
MCTA	425	CD2		869	76.165	59.652	3.186	1.00 98.24
ATOM	426	CEl	PHE A	869	74.341	61.604	2.457	1.00 98.24
ATOM	427	CE2	PHE A	869	76.078	60.063	1.854	1.00 98.24
MOTA	428	CZ	PHE A	869	75.166	61.038	1.492	1.00 98.24
ATOM	430	N	ALA A		78.007	58.287	7.106	1.00100.00
		CA	ALA A		79.005	57.205	7.146	1.00100.00
ATOM	431						8.564	1.00100.00
MOTA	432	С	ALA A		79.570	57.201		
ATOM	433	0	ALA A		80.73 <i>6</i>	56.892	8,.807	1.00100.00
MOTA	434	CB	ALA A	870	80.131	57.437	6.134	1.00100.00
ATOM	436	N	GLY A	871	78.706	57.575	9.490	1.00100.00
ATOM	437	CA	GLY A	871	79.058	57.626	10.888	1.00100.00
ATOM	438	C	GLY A		77.783	57.234	11.591	1.00100.00
			GLY A		77.802	56.636	12.662	1.00100.00
MOTA	439	0					10.987	1.00100.00
ATOM	441	N	GLU A		76.656	57.592		
MCTA	442	CA	GLU A	872	75.384	57.210	11.564	1.00100.00
MOTA	443	С	GLU A	872	75.581	55.695	11.584	1.00100.00
MCTA	444	0	GLU A	872	75.628	55.083	12.655	1.00100.00
ATOM	445	CB	GLU A		74.200	57.613	10.651	1.00 99.93
			GLU A		73.244	58.668	11.260	1.00 99.93
MOTA	446	CG					10.919	1.00 99.93
ATOM	447	CD	GLU A		71.754	58.458		1.00 99.93
ATOM	448	OE1	GLU A		71.434	57.633	10.040	
ATOM	449	OE2	GLU A	872	70.894	59.128	11.532	1.00 99.93
MOTA	451	N	LEU A	873	75.773	55.121	10.389	1.00 77.06
ATOM	452	CA	LEU A	873	75.982	53.683	10.215	1.00 77.06
ATOM	453	C	LEU A		77.167	53.198	11.046	1.00 77.06
			LEU A		77.384	51.998	11.180	1.00 77.06
ATOM	454	0				53.366	8.746	1.00 96.97
ATOM	455	CB	LEU A		76.202			
MOTA	457	N	GLU A	874	77.920	54.142	11.612	1.00 98.87
MOTA	458	CA	GLU A	874	79.091	53.832	12.423	1.00 98.87
ATOM	459	C	GLU A	874	78.740	53.585	13.890	1.00 98.87
ATOM	460	0	GLU A	874	79.072	52.546	14.449	1.00 98.87
MOTA	461	CB	GLU A		80.107	54.954	12.306	1.00 56.03
		N	VAL A		78.096	54.541	14.543	1.00100.00
ATOM	463				77.725	54.320	15.936	1.00100.00
ATOM	464	CA	VAL A					1.00100.00
MOTA	465	C	VAL A		76.577	53.312	15.875	
ATOM	466	0	VAL A	875	76.533	52.370	16.654	1.00100.00
ATOM	467	CB	VAL A	875	77.279	55.629	16.582	1.00100.00
ATOM	469	N	LEU A	876	75.678	53.520	14.911	1.00 63.64
ATOM	470	ĆA	LEU A		74.515	52.662	14.649	1.00 63.64
	_		LEU A		74.825	51.155	14.638	1.00 63.64
MOTA	471	C				50.359	14.292	1.00 63.64
ATOM	472	0	LEU A		73.935			1.00 36.83
ATOM	473	CB	LEU A		73.914	53.005	13.267	
ATOM	474	CG	LEU A	876	72.851	54.076	12.997	1.00 36.83
ATOM	475	CD1	LEU A	876	72.028	53.665	11.807	1.00 36.83
ATOM	476		LEU A		71.987	54.260	14.181	1.00 36.83
ATOM	478	N	CYS A		76.072	50.786	14.978	1.00 75.85
		CA	CYS A		76.570	49.391	14.973	1.00 75.85
ATOM	479						16.317	1.00 75.85
ATOM	480	C	CYS A		76.791	48.697		1.00 75.85
MCTA	481	0	CYS A		75.965	47.904	16.771	
MOTA	482	CB	CYS A	877	77.890	49.343	14.202	1.00 82.25
ATOM	483	SG	CYS A	877.	78.205	50.859	13.250	1.00 82.25
ATOM	485	N	LYS A		77.947	48.968	16.913	1.00100.00
ATOM	486	CA	LYS A		78.334	48.400	18.202	1.00100.00
	487	C	LYS A		77.159	48.295	19.186	1.00100.00
ATOM			LYS A		77.237	47.565	20.178	1.00100.00
MOTA	488	0	шір А		,,.25,	1		

ATOM	489	CB	LYS	A	878	79.460	49.251	18.826	1.00 9	
ATOM	490	CG	LYS	Α	878	80.588	49.643	17.842	1.00	
ATOM	491	CD	LYS	A	878	80.814	51.160	17.739	1.00 9	
ATOM	492	CE	LYS	Ą	878	81.033	51.598	16.292		99.60
ATOM	493	NZ	LYS	A	878	82.152	52.567	16.077	1.00 9	99.60
ATOM	498	N	LEU			76.079	49.024	18.905	1.00 9	99.14
ATOM	499	CA	LEU			74.905	49.034	19.762	1.00 9	99.14
	500	C	LEU			73.664	48.687	18.953	1.00 9	99.14
ATOM	501	0	LEU			72.574	48.526	19.488	1.00 9	99.14
ATOM		CB	LEU			74.748	50.416	20.401	1.00 9	
MOTA	502		LEU			74.125	51.546	19.579	1.00 9	
MOTA	503	CG				74.530	52.863	20.154	1.00	
ATOM	504	CD1						18.135		99.96
ATOM	505	CD2	LEU			74.555	51.454	17.647		74.75
ATOM	507	N	GLY			73.840	48.593			
MOTA	508	CA	GLY			72.737	48.256	16.775		74.75
MOTA	509	C	GLY			71.778	47.281	17.406	1.00	
ATOM	510	0	GLY	A	880	70.589	47.458	17.285	1.00	
ATOM	512	N	HIS	Α	881	72.288	46.243	18.067	1.0010	
MOTA	513	CA	HIS	A	881	71.428	45.246	18.700	1.0010	00.00
ATOM	514	C	HIS	Α	881	71.274	45.583	20.172	1.0010	00.00
ATOM	515	0	HIS	A	881	71.798	46.571	20.661	1.0010	00.00
ATOM	516	CB			881	71.989	43.818	18.514	1.00 8	30.74
	517	CG			881	71.360	42.778	19.401	1.00 8	30.74
ATOM			HIS			70.116	42.234	19.155	1.00 8	
ATOM	518		HIS			71.778	42.230	20.573	1.00 8	
ATOM	519	CD2				69.792	41.404	20.133	1.00 8	
MOTA	520	CE1	HIS				41.384	21.007	1.00	
MOTA	521				881	70.783		20.846	1.00	5.03
ATOM	525				882	70.539	44.718			5.03
MOTA	526	CA			-	70.126	44.779	22.266	1.00	5.03
MOTA	527	C	HIS			68.572	44.646	22.018	1.00	
MOTA	528	0	HIS	А	882	67.998	45.211	20.996	1.00	5.03
ATOM	529	CB	HIS	Α	882	70.487	46.161	22.887	1.00	
ATOM	530	CG	HIS	A.	882	70,085	46.316	24.322	1.00	
ATOM	531	NDl	HIS	Α	882	68.786	46.169	24.753	1.00	
ATOM	532	CD2	HIS	A	882	70.816	46.553	25.432	1.00	
ATOM	533	CEL	HIS			68.731	46.302	26.066	1.00	
ATOM	534				882	69.949	46.535	26.504	1.00	36.20
MOTA	538	N	PRO			67.875	43.928	22.885	1.00	18.79
	539	CA			883	66.444	43.868	22.564	1.00	18.79
ATOM		C	PRO			65.806	45.252	22.201	1.00	18.79
ATOM	540					65.014	45.404	21.188	1.00	18.79
ATOM	541	O,	PRO			65.804	43.294	23.829	1.00	
ATOM	542		PRO			66.946	43.069	24.810	1.00	
MOTA	543	CG	PRO					24.107	1.00	
MOTA	544	CD	PRO			68.231	43.209		1.00	
ATOM	545	N	ASN			66.245	46.252	22.975	1.00	
MOTA	546	CA	ASN			65.656	47.545	22.910		
MOTA	547	C	ASN	A	884	66.055	48.782	22.174	1.00	
ATOM	548	0	ASN	Α	884	65.930	49.811	22.738	1.00	
ATOM	549	CB	ASN	A	884	65.371	47.916	24.332	1.00	
ATOM	550	CG	ASN	Α	884	64.926	46.747	25.093	1.00	
ATOM	551	OD1	ASN	A	884	65.360	46.508	26.173	1.00	
ATOM	552	ND2				64.056	45.990	24.504		47.99
ATOM	556	N			885	66.421	48.685	20.906	1.00	2.00
	557	CA			885	66.784	49.799	20.139	1.00	2.00
ATOM		CA			885	66.578	49.337	18.712	1.00	2.00
MOTA	558				885	67.324	48.601	18.278		2.00
ATOM	559	0				68.282	50.142	20.404	1.00	5.30
MOTA	560	CB	كنلد	A	885	00.202	JU.144	20.404		

ATOM	561	CG1	ILE			68.387	50.790	21.774	1.00 5.30
ATOM	562	CG2	ILE	A	885	68.946	51.096	19.301	1.00 5.30
ATOM	563	CD1	ILE	A	885	69.834	51.062	22.137	1.00 5.30
ATOM	565	N	ILE	A	886	65.634	49.811	17.931	1.00 41.79
ATOM	566	CA	ILE	A	886	65.528	49.296	16.564	1.00 41.79
ATOM	567	C	ILE			66.883	45.887	15.937	1.00 41.79
ATOM	568	ō	ILE			67.899	49.217	16.450	1.00 41.79
MOTA	56.9	CB.	ILE			64.769	50.316	15.671	1.00 97.62
	570	CG1	ILE			63.737	49.563	14.817	1.00 97.62
MOTA		CG2	ILE			65.742	51.141	14.871	1.00 97.62
ATOM	571	CD1	ILE			62.833	50.438	14.004	1.00 97.62
ATOM	572		ASN			66.915	48.190	14.817	1.00 58.02
ATOM	574	N				68.191	47.751	14.300	1.00 58.02
MOTA	575	CA	ASN				48.230	12.940	1.00 58.02
ATOM	576	С	ASN			68.481		12.321	1.00 58.02
ATOM	577	C	ASN			67.635	48.811		1.00 58.02
ATOM	578	CB	ASN			68.237	46.228	14.269	
MOTA	579	CG	ASN			69.626	45.688	14.460	1.00 61.11
ATOM	580	OD1	ASN			70.307	45.367	13.505	1.00 61.11
ATOM	581	ND2	ASN	A	887	70.050	45.584	15.711	1.00 61.11
ATOM	585	N	LEU	A	888	69.688	47.945	12.467	1.00100.00
ATOM	585	CA	LEU	Α	888	70.097	48.313	11.122	1.00100.00
ATOM	587	С	LEU	A	888	70.158	47.037	10.282	1.00100.00
ATOM	588	0	LEU	Α	888	71.039	46.202	10.444	1.00100.00
ATOM	589	CB	LEU			71.467	48.993	11.131	1.00100.00
ATOM	590	CG	LEU			72.068	49.217	9.743	1.00100.00
ATOM	591		LEU			72.054	50.676	9.410	1.00100.00
	592	CD2	LEU			73.475	48.686	9.699	1.00100.00
ATOM						69.191	46.880	9.398	1.00 73.18
ATOM	594		LEU			69.128	45.721	8.530	1.00 73.18
ATOM	595	CA				70.044	45.860	7.290	1.00 73.18
MOTA	596	C	LEU				44.920	6.926	1.00 73.18
ATOM	597	0	LEU			70.737		8.102	1.00 10.03
MOTA	598	CB	LEU			67.666	45.500	9.010	1.00 10.03
ATOM	599	CG	LEU			66.628	44.729		
MOTA	600	CD1	LEU			66.180	43.517	8.146	
ATOM	601	CD2	LEU			67.147	44.336	10.432	1.00 10.03
MOTA	603	N	\mathtt{GLY}	Ą	890	70.058	47.028	6.651	1.00100.00
ATOM	604	CA	GLY	A	890	70.898	47.201	5.475	1.00100.00
ATOM	605	С	GLY	Ā	890	71.057	48.582	4.845	1.00100.00
MOTA	606	0	\mathtt{GLY}	A	890	70.515	49.581	5.319	1.00100.00
ATOM	608	N	ALA	A	891	71.829	48.616	3.758	1.00 93.61
ATOM	609	ĊA	ALA	A	891	72.124	49.833	2.992	1.00 93.61
ATOM	610	С	ALA			73.125	49.438	1.929	1.00 93.61
ATOM	611	0	ALA			73.999	48.626	2.223	1.00 93.61
ATOM	612	CB	ALA			72.763	50.871	3.886	1.00 28.61
ATOM	614	N	CYS			73.033	49.985	0.715	1.00100.00
	615	CA	CYS			74.034	49.635	-0.306	1.00100.00
MOTA		C	CYS			74.789	50.793	-0.956	1.00100.00
MOTA	616					75.934	51.073	-0.606	1.00100.00
MCTA	617	0	CYS			73.432	48.787	-1.429	1.00100.00
ATOM	618	CB	CYS					-2.757	1.00100.00
ATOM	619	SG	CYS			74.641	48.356	-1.914	1.00 85.23
MOTA	621	N	GLU			74.134	51.447		1.00 85.23
MOTA	622	CA	GLU			74.715	52.555	-2.679	1.00 85.23
ATOM	623	С	GLU			73.816	52.794	-3.880	
ATOM	624	0	GLU			74.228	52.512	-5.011	1.00 85.23
MOTA	625	CB			893	76.108	52.176	-3.222	1.00100.00
ATOM	626	CG	GLU	А	893	77.267	53.065	-2.785	1.00100.00
ATOM	627	CD	GLU	Α	893	78.487	52.246	-2.386	1.00100.00

ATOM	628	OEl	GLU A	893	79.029	51.535	-3.266	1.00100.00
ATOM	629		GLU A		78.893	52.307	-1.197	1.00100.00
ATOM	631	N	HIS A	894	72.602	53.293	-3.564	1.00100.00
ATOM	632		HIS A		71.731	53.508	-4.810	1.00100.00
ATOM	633		HIS A		71.885	54.855	-5.463	1.00100.00
ATOM	634		HIS A		71.106	55.770	-5.181	1.00100.00
ATOM	635		HIS A		70.261	53.338	-4.477	1.00100.00
ATOM	636		HIS A		69.370	53.597	-5.652	1.00100.00
ATOM	637		HIS A		68.309	54.476	-5.610	1.00100.00
ATOM	638		HIS A		69.419	53.128	-6.922	1.00100.00
MOTA	639		HIS A		67.743	54.539	-6.802	1.00100.00
ATOM	640		HIS A		68.397	53.729	-7.615	1.00100.00
ATOM	644	N	ARG A		72.888	54.950	-6.340	1.00100.00
ATOM	645	CA	ARG A		73.176	56.161	-7.090	1.00100.00
	646	C	ARG A		72.331	57.309	-6.481	1.00100.00
MOTA	647	0	ARG A		71.194	57.562	-6.910	1.00100.00
MOTA			ARG A		72.842	55.883	-8.571	1.00 36.65
ATOM	648	CB CG	ARG A		73.711	54.767	-9.229	1.00 36.65
ATOM	649		ARG A		73.012		-10.421	1.00 36.65
ATOM	650	CD	ARG A		73.587		-11.738	1.00 36.65
ATOM	651	ΝE	ARG A		74.382		-12.451	1.00 36.65
MOTA	652	CZ			74.735		-11.986	1.00 36.65
MOTA	653		ARG A		74.733	53.963		1.00 36.65
MOTA	654	NH2	ARG A			57.979	-5.469	1.00 33.20
MOTA	661	N	GLY A		72.901		-3.455	1.00 33.20
ATOM	662	CA	GLY A		72.190		-3.348	1.00 33.20
MOTA	663	C	GLY A		71.918	58.455		1.00 33.20
ATOM	664	0	GLY A		70.779	58.462	-2.847	1.00 98.45
ATOM	666	N	TYR A		72.971	57.947	-2.705	1.00 98.45
MOTA	667	CA	TYR A		72.864	57.372	-1.356	1.00 98.45
MOTA	668	C	TYR A		72.959	55.835	-1.387	1.00 98.45
MOTA	669	0	TYR A		73.599	55.240	-2.258	1.00100.00
MOTA	670	CB	TYR A		71.532	57.786	-0.716	1.00100.00
ATOM	671	CG	TYR A		71.522	58.208	0.734	1.00100.00
MOTA	672	CD1			71.152	59.511	1.080	
MOTA	673	CD2	TYR A		71.631	57.268	1.756	1.00100.00
ATOM	674	CEl	TYR A		70.860	59.866	2.391	1.00100.00
ATOM	675	CE2	TYR A	897	71.345	57.604	3.074	1.00100.00
ATOM	676	CZ	TYR A	. 897	70.947	58.908	3.389	1.00100.00
ATOM	677	OH	TYR A	897	70.582	59.246	4.682	1.00100.00
MOTA	680	N	LEU A	898.	72.293	55.212	-0.419	1.00100.00
MOTA	681	ĆA	LEU A	898	72.272	53.765		1.00100.00
ATOM	682	С	LEU A	898	70.983	53.363	0.469	1.00100.00
ATOM	683	0	LEU A	898	70.810	52.197	0.836	1.00100.00
ATOM	684	CB	LEU A		73.495	53.328	0.551	1.00 67.92
ATOM	686	N	TYR A		70.097	54.345	0.668	1.00100.00
ATOM	687	CA	TYR A		68.813	54.169	1.347	1.00100.00
ATOM	688	C	TYR A		68.976	53.434	2.680	1.00100.00
ATOM	689	0	TYR A		70.090	53.252	3.153	1.00100.00
ATOM	690	CB	TYR A		67.840	53.420	0.434	1.00 99.94
	691	CG	TYR A		67.265	54.259		1.00 99.94
ATOM	692	CD1			67.218	53.770		1.00 99.94
ATOM		CD1			66.738	55.531		1.00 99.94
ATOM	693	CE1			66.662	54.519		1.00 99.94
ATOM	694 695				66.176	56.295		1.00 99.94
ATOM	. 695	CE2	TYR A		66.143	55.778		1.00 99.94
ATOM	696	CZ	TYR A		65.580	56.509		1.00 99.94
MOTA	697	OH			67.876	53.017		1.00 99.32
MOTA	700	N	LEU A	- 300	01.076	٠٠٠١ د د د	5.500	

ATOM 701 CA LEU A 900 67.987 52.305 4.573 1.00 99.32 ATOM 702 C LEU A 900 67.119 51.071 4.770 1.00 99.32 ATOM 703 O LEU A 900 67.055 53.258 5.752 1.00 72.65 ATOM 704 CB LEU A 900 67.755 53.258 5.752 1.00 72.65 ATOM 705 CG LEU A 900 67.075 53.358 5.752 1.00 72.65 ATOM 705 CG LEU A 900 70.175 52.843 6.059 1.00 72.65 ATOM 707 CDZ LEU A 900 70.175 52.843 6.059 1.00 72.65 ATOM 707 CDZ LEU A 900 69.096 54.792 7.259 1.00 10.72.65 ATOM 707 CDZ LEU A 901 66.617 49.244 6.288 1.00100.00 ATOM 711 C ALA A 901 66.802 99.053 7.774 1.00100.00 ATOM 711 C ALA A 901 66.802 99.053 7.774 1.00100.00 ATOM 712 C ALA A 901 67.774 48.484 8.231 1.00100.00 ATOM 713 CB ALA A 901 67.152 48.049 5.537 1.00100.00 ATOM 713 CB ALA A 901 67.152 48.049 5.537 1.00100.00 ATOM 713 CB ALA A 901 67.152 48.049 5.537 1.00100.00 ATOM 710 CT LEU A 902 65.840 49.575 5.510 1.00 33.23 ATOM 717 C TLE A 902 65.773 49.510 9.964 1.00 33.23 ATOM 717 C TLE A 902 65.930 51.992 9.964 1.00 33.23 ATOM 719 CB LLE A 902 65.930 51.992 10.352 1.00 33.23 ATOM 720 CGI TLE A 902 65.930 51.992 10.352 1.00 33.23 ATOM 721 CGZ LLE A 902 65.930 51.992 9.960 1.00 58.03 ATOM 722 CDI TLE A 902 65.930 51.992 10.352 1.00 33.23 ATOM 721 CGZ LLE A 902 65.103 50.817 10.474 1.00 58.03 ATOM 722 CDI TLE A 902 65.103 50.817 10.474 1.00 58.03 ATOM 722 CDI TLE A 902 65.103 50.817 10.474 1.00 58.03 ATOM 722 CDI TLE A 903 66.505 50.902 11.992 10.003 7.33 ATOM 720 CGI TLE A 903 66.505 50.902 11.992 10.003 7.33 ATOM 720 CGI TLE A 903 66.468 46.507 11.912 1.00 37.33 ATOM 720 CGI TLE A 903 66.468 46.507 11.912 1.00 37.33 ATOM 720 CG GLU A 903 66.468 46.507 11.912 1.00 37.33 ATOM 720 CG GLU A 903 66.468 46.507 11.912 1.00 37.33 ATOM 720 CG GLU A 903 66.476 48.686 48.100 11.90 57.33 ATOM 720 CG GLU A 903 66.476 48.686 48.100 11.90 57.33 ATOM 720 CG GLU A 903 66.476 48.686 48.100 11.90 57.33 ATOM 720 CG GLU A 903 66.476 48.686 48.100 11.90 57.33 ATOM 720 CG GLU A 903 66.476 48.686 48.100 11.90 57.33 ATOM 720 CG GLU A 903 66.476 48.686 48.100 11.90 57.33 ATOM 720 CG GLU A 903 66.476 48.686 48.100 11.90 5 759 CG PRO A 906 55.605 43.816 15.072 1.00 74.50 760 CD PRO A 906 56.773 44.682 14.734 1.00 74.50 761 N HIS A 907 53.838 47.018 15.336 1.00 75.88 762 CA HIS A 907 52.751 47.792 15.909 1.00 75.88 763 C HIS A 907 52.942 49.300 15.917 1.00 75.88 764 O HIS A 907 52.370 49.979 16.754 1.00 75.88 MOTA MOTA MOTA MOTA MOTA

MOTA	765	СВ	HIS A 907	52.491	47.321	17.327	1.00 58.13
ATOM	766		HIS A 907	52.494			
MOTA	767	NDl	HIS A 907	52.400			
ATOM	768		HIS A 907	52.595			
MOTA	769		HIS A 907	52.442			
ATOM	770		HIS A 907	52.563		18.117	
ATOM	774	N	GLY A 908	53.744		15.004	
ATOM	775	CA	GLY A 908	53.952		14.965	1.00 99.49
ATOM	776	С	GLY A 908	54.688		16.168	1.00 99.49
ATOM	777	0	GLY A 908	55.536		16.736	1.00 99.49
ATOM	779	N	ASN A 909	54.345		16.565	1.00 37.36
ATOM	780	CA	ASN A 909	54.995	53.672	17.686	1.00 37.36
ATOM	781	С	ASN A 909	54.274	53.675	18.970	1.00 37.36
ATOM	782	0	ASN A 909	53.091	53.524	19.093	1.00 37.36
ATOM	783		ASN A 909	55.422	55.139	17.378	1.00 37.36
MOTA	784	CG	ASN A 909	54.300	56,174	17.594	1.00 21.80
ATOM	785		ASN A 909	54.091	57.036	16.763	1.00 21.80
ATOM	786		ASN A 909	53.611	56.094	18.714	1.00 21.80
ATOM	790		LEU A 910	55.043		19.971	
ATOM	791		LEU A 910	54.505	53.895	21.258	
ATOM	792		LEU A 910	53.372	54.836	21.236	
ATOM	793		LEU A 910	52.558	54.488	22.290	
ATOM	794		LEU A 910	55.629	53.964	22.304	
ATOM	795		LEU A 910	55.112	53.756	23.738	1.00 22.43
ATOM	796		LEU A 910	54.795	52.285	23.738	1.00 22.43
ATOM	797		LEU A 910	56.128	54.383	24.829	1.00 22.43
ATOM	799		LEU A 911	53.269	56.034	20.959	1.00 22.43 1.00 53.76
ATOM ·	800		LEU A 911	52.062	56.772	21.333	1.00 53.76
ATOM	801		LEU A 911	50.801	56.136	20.690	
ATOM	802		LEU A 911	49.969	55.583	21.406	1.00 53.76 1.00 53.76
ATOM	803		LEU A 911	52.158	58.265	20.991	1.00 33.76
ATOM	804		LEU A 911	51.350	59.370	21.692	1.00 2.16
ATOM	805		LEU A 911	51.622	59.513	23.075	1.00 2.16
ATOM	806		LEU A 911	51.612	60.569	20.997	1.00 2.16
MOTA	808		ASP A 912	50.566	56.165	19.363	1.00 2.10
ATOM	809		ASP A 912	49.481	55.594	18.764	1.00 37.67
ATOM	810		ASP A 912	49.087	54.287	19.391	1.00 37.67
ATOM	811		ASP A 912	48.010	54.116	19.875	1.00 37.67
ATOM	812		ASP A 912	49.652	55.383	17.285	1.00 37.67
ATOM	813		ASP A 912	49.965	56.675	16.516	1.00 2.00
ATOM	814		ASP A 912	49.929	56.718	15.258	1.00 2.00
MOTA	815		ASP A 912	50.263	57.647	17.195	1.00 2.00
ATOM	817		PHE A 913	49.977	53.341	19.403	1.00 21.37
MCTA	818		PHE A 913	49.659	52.056	19.975	1.00 21.37
ATOM	819		PHE A 913	49.216	52.291	21.331	1.00 21.37
ATOM	820		PHE A 913	48.338	51.566	21.787	1.00 21.37
ATOM	821		PHE A 913	50.826	51.097	19.956	1.00 21.37
ATOM	822		PHE A 913	50.639	49.861	20.776	1.00 2.23
ATOM	823		PHE A 913	50.389	48.681	20.776	1.00 2.23
ATOM	824		PHE A 913	50.826	49.886	20.165	1.00 2.23
ATOM	825		PHE A 913	50.330	47.610	20.870	1.00 2.23
ATOM	826		PHE A 913	50.749	48.684	22.902	
ATOM	827		PHE A 913	50.503	47.593	22.238	1.00 2.23 1.00 2.23
ATOM	829		EU A 914	49.753	53.295	22.236	1.00 2.23
ATOM	830		EU A 914	49.233	53.552	23.340	1.00 34.44
ATOM	· 831		EU A 914	47.770	54.028	23.340	1.00 34.44
ATOM	832		EU A 914	46.927	53.718	24.017	1.00 34.44
			** >	±0.72/	77.170	4OT/	4.00 De.44

ATOM	833	CB	LEU	A.	914	50.089	54.600	24.053	1.00	99.33
ATOM	834	CG	LEU			51.192	54.077	24.972	1.00	99.33
ATOM	835	CD1	LEU	A	914	52.365	55.032	24.979	1.00	99.33
MOTA	836	CD2	LEU	Ą	914	50.633	53.912	26.367	1.00	99.33
ATOM	838	N	ARG	A	915	47.489	54.720	22.111	1.00	38.92
MOTA	839	CA	ARG	A	915	46.202	55.332	21.795	1.00	38.92
MOTA	840	C	ARG	Α	915	45.058	54.463	21.348	1.00	38.92
MOTA	841	0	ARG			43.891	54.728	21.700	1.00	38.92
ATOM	842	CB	ARG	A	915	46.422	56.347	20.720	1.00	6.43
ATOM	843	CG	ARG	Α	915	46.646	57.788	21.276	1.00	6.43
ATOM	844	CD	ARG	Ą	915	47.992	58.402	21.097	1.00	6.43
ATOM	845	NE	ARG	A	915	48.094	59.491	22.107	1.00	6.43
ATOM	846	CZ	ARG	A	915	48.254	60.805	21.838	1.00	6.43
ATOM	847	NH1	ARG	A	915	48.331	61.314	20.610	1.00	6.43
MOTA	848	NH2	ARG	A	915	48.468	61.590	22.822	1.00	6.43
ATOM	855	N	LYS	A	916	45.399	53.475	20.520	1.00	22.32
ATOM	856	CA	LYS	A	916	44.513	52.462	20.007	1.00	22.32
ATOM	857	C	LYS	A	916	44.158	51.432	21.156	1.00	22.32
ATOM	858	0	LYS	A	916	43.680	50.278	20.864	1.00	22.32
ATOM	859	CB		A	916	45.275	51.740	18.908	1.00	23.97
ATOM	860	CG	LYS	A	916	46.735	51.281	19.327	1.00	23.97
ATOM	861	CD			916	46.899	50.099	20.472	1.00	23.97
ATOM	862	CE			916	46.886	48.726	19.880	1.00	23.97
ATOM	863	NZ			916	46.600	48.934	18.374	1.00	23.97
ATOM	868	N	SER			44.387	51.831	22.418	1.00	22.74
ATOM	869	CA	SER			44.179	51.001	23.600	1.00	22.74
ATOM	870	C	SER			43.034	51.499	24.516	1.00	22.74
ATOM	871	0	SER			42.627	50.829	25.545	1.00	22.74
ATOM	872	CB	SER			45.489	50.997	24.415	1.00	34.41
ATOM	873	OG	SER			45.310	50.676	25.795	1.00	34.41
	876	N	ARG			42.610	52.718	24.199	1.00	
ATOM		CA	ARG			41.546	53.402	24.928	1.00	59.16
ATOM	877	CA	ARG			40.240	52.937	24.293	1.00	59.16
ATOM	878		ARG			39.667	53.636	23.457	1.00	59.16
ATOM	879	0	ARG			41.724	54.919	24.780	1.00	47.25
ATOM	880	CB	ARG			43.152	55.447	25.013	1.00	47.25
MOTA	881	CG					56.981	25.013	1.00	47.25
ATOM	882	CD	ARG			43.251	57.501		1.00	47.25
ATOM	883	NE	ARG			44.063	58.794	26.368	1.00	47.25
MOTA	884	CZ	ARG			44.349	59.671	25.521		47.25
MOTA	885	NHl	ARG			43.894	59.226	27.374		47.25
ATOM	886	**	ARG			45.092				99.87
MOTA	893	N	VAL			39.829	51.722	24.665		99.87
ATOM	894	CA	VAL			38.625	51.077	24.148		99.87
MOTA	895	C	VAL			37.442	52.049	24.208		99.87
ATOM	896	0	VAL			36.849	52.376	23.191		30.60
ATOM	897	CB	VAL			38.375	49.713	24.883		
ATOM	898	CG1				39.007	48.626	24.110		30.60
ATOM	899	CG2				38.949	49.723	26.257		30.60
MOTA	901	N	LEU			37.111	52.497	25.405		36.31
ATOM	902	CA	LEU	A	920	36.115	53.513	25.648		36.31
MOTA	903	C	LEU			36.539	54.698	24.811		36.31
ATOM	904	0	LEU	A	920	37.065	55.646	25.312		36.31
ATOM	905	CB	LEU	A	920	36.201	53.928	27.088		11.95
ATOM	906	CG	LEU	A	920	34.951	54.248	27.902		11.95
ATOM	907	CD1	LEU	A	920	34.645	52.948	28.585		11.95
ATOM	908		LEU			35.117	55.350	28.954		11.95
ATOM	910	N			921	36.349	54.626	23.518	1.00	9.77

ATOM	911	CA	GLŰ	A	921		36.726	55.656	22.606	1.00 9.77
ATOM	912	C	GLU	А	921		3 <i>6.9</i> 37	54.877	21.314	1.00 9.77
ATOM	913	0	GLU	Α	921		36.305	55.139	20.294	1.00 9.77
MOTA	914	CB	GLU	A	921		38.009	56.321	23.076	1.00 41.44
ATOM	915	CG	GLU	Α	921		38.187	57.798	22.646	1.00 41.44
ATOM	916	CD	GLU	A	921		39.514	58.054	21.899	1.00 41.44
MOTA	917	OE1	GLU				40.583	58.228	22.581	1.00 41.44
ATOM	918	OE2	GLU				39.465	58.066	20.642	1.00 41.44
	920	N	THR				37.799	53.864	21.348	1.00 38.88
ATOM	921	CA	THR				38.110	53.051	20.167	1.00 38.88
ATOM										
MOTA	922	С	THR .				36.981	52.136	19.842	1.00 38.88
ATOM	923	0	THR .				36.505	52.013	18.726	1.00 38.88
ATOM	924	CB	THR .				39.174	52.111	20.500	1.00 40.90
MOTA	925	OGl	THR .				39.068	51.846	21.908	1.00 40.90
MOTA	926	CG2	THR .				40.560	52.671	20.140	1.00 40.90
MOTA	929	N	ASP .	Ą	923		36.604	51.443	20.897	1.00 29.76
MOTA	930	CA	ASP .	Ą	923		35.585	50.420	20.901	1.00 29.76
ATOM	931	С	ASP .	A	923		34.964	50.486	22.309	1.00 29.76
MOTA	932	0	ASP .	Α	923		35.466	49.896	23.271	1.00 29.76
ATOM	933	CB	ASP .	A	923		36.294	49.081	20.662	1.00100.00
ATOM	934	CG	ASP :				35.357	47.934	20.521	1.00100.00
ATOM	935	OD1			923		35.131	47.241	21.517	1.00100.00
ATOM	936	OD2	ASP A				34.854	47.713	19.413	1.00100.00
	938	N	PRO 2				33.906	51.274	22.472	1.00100.00
ATOM			PRO I				33.351			
ATOM	939	CA						51.282	23.821	1.00 69.79
ATOM	940	C	PRO I				32.633	49.968	24.194	1.00 69.79
MOTA	941	0	PRO 1				32.489	49.672	25.371	1.00 69.79
MOTA	942	CB	PRO 2				32.449	52.516	23.822	1.00 55.89
MOTA	943	ÇG	PRO I				32.843	53.260	22.568	1.00 55.89
ATOM	944	CD	PRO 2	A	924		33.238	52.242	21.601	1.00 55.89
MOTA	945	N	ALA A	A	925		32.206	49.183	23.199	1.00100.00
ATOM	946	CA	ALA Z	A	925		31.555	47.887	23.453	1.00100.00
MOTA	947	C	ALA	A	925		32.501	47:062	24.325	1.00100.00
ATOM	948	0	ALA Z	A.	925		32.137	46.651	25.428	1.00100.00
ATOM	949	CB	ALA A	A.	925		31.278	47.156	22.146	1.00100.00
MCTA	951	N	PHE A				33.704	46.798	23.809	1.00 39.96
MOTA	952	CA	PHE A				34.714	46.108	24.576	1.00 39.96
ATOM	953	C			926		34.808	46.862	25.859	1.00 39.96
	95 <u>4</u>	0			926		34.279	46.468	26.851	1.00 39.96
ATOM			PHE A				36.075	46.145	23.886	1.00 99.37
ATOM	955	CB							24.602	1.00 99.37
ATOM	956		PHE A					45.350		
ATOM	957		PHE A				37.270	43.990	24.365	1.00 99.37
MOTA	958	CD2					37.940	45.950	25.560	1.00 99.37
MOTA	959		PHE A				38.192	43.248	25.071	1.00 99.37
ATOM	960	CE2	PHE A	A	926		38.861	45.217	26.265	1.00 99.37
ATOM	961	CZ	PHE A	A	926		38.987	43.863	26.023	1.00 99.37
MOTA	963	N	ALA 2	A	927		35.470	47.996	25.823	1.00100.00
ATOM	964	CA	ALA A	A	927		35.628	48.798	27.018	1.00100.00
MOTA	965	С	ALA A	A.	927		34.627	48.539	28.167	1.00100.00
ATOM	966	0	ALA A				35.030	48.490	29.328	1.00100.00
ATOM	967	CB	ALA				35.611	50.250	26.619	1.00 37.88
ATOM	969	N	ILE A				33.343	48.348	27.845	1.00 71.50
		CA	ILE A				32.287	48.137	28.866	1.00 71.50
ATOM	970							46.700	29.164	1.00 71.50
ATOM	971	C	ILE A				31.863			1.00 71.50
ATOM	972	0	ILE A				31.579	46.352	30.301	
ATOM	973	CB	ILE A			,	30.987	48.939	28.510	1.00 96.87
ATOM	974	CG1	ILE A	A	928		30.326	49.467	29.787	1.00 96.87

ATOM	975	CG2	ILE	A	928	30.008	48.051	27.748	1.00	96.87
MOTA	976	CD1	ILE	A	928	28.888	49.846	29.624	1.00	96.87
ATOM	978	N	ALA	A	929	31.793	45.881	28.130	1.00	100.00
ATOM	979	CA	ALA	А	929	31.431	44.498	28.319	1.00	100.00
ATOM	980	C	ALA	Α	929	32.550	43.917	29.163	1.003	100.00
ATOM	981	0	ALA	A	929	32.326	43.246	30.160	1.00	100.00
ATOM	982	CB	ALA	A.	929	31.367	43.810	26.982	1.00	31.88
ATOM	984	N	ASN	Д	930	33.767	44.220	28.737	1.00	37.33
ATOM	985	CA	ASN	A	930	35.009	43.775	29.380	1.00	37.33
ATOM	986	С	ASN	A	930	35.326	44.575	30.614	1.00	37.33
ATOM	987	0	ASN	A	930	36.020	44.110	31.496	1.00	37.33
ATOM	988	CB	ASN	A	930	36.163	43.843	28.378	1.00	87.25
ATOM	989	CG	ASN	A	930	36.469	42.497	27.753	1.00	87.25
ATOM	990	OD1	ASN			37.485	41.865	28.062	1.00	87.25
ATOM	991	ND2	ASN			35.590	42.051	26.865	1.00	87.25
ATOM	995	N	SER			34.828	45.807	30.629	1.00	35.86
ATOM	996	CA	SER			34.968	46.734	31.740	1.00	35.86
ATOM	997	C	SER			36.347	47.321	32.044		35.86
ATOM	998	0	SER			36.779	47.344	33.211		35.86
ATOM	999	CB	SER			34.413	46.039	32.992	1.00	
ATOM	1000	OG	SER			34.049	44.700	32.650	1.00	47.04
ATOM	1003	N	THR			37.030	47.813	31.024	1.00	77.19
ATOM	1003	CA	THR			38.346	48.398	31.249	1.00	77.19
		CA	THR			38.655	49.585	30.346	1.00	77.19
ATOM	1005		THR			38.224	49.632	29.198	1.00	77.19
	1006	0	THR			39.453	47.353	31.056	1.00	99.17
ATOM	1007	CB							1.00	99.17
ATOM	1008	OG1	THR			39.813	47.299	29.676		
ATOM	1009	CG2	THR			38.980	45.991	31.492	1.00	99.17
ATOM	1012	N	ALA			39.376	50.554	30.891	1.00	37.14
ATOM	1013	CA	ALA			39.814	51.734	30.120		37.14
MOTA	1014	С	ALA			40.655	51.286	28.911	1.00	37.14
MOTA	1015	0	ALA			40.255	51.495	27.792	1.00	37.14
MOTA	1016	CB	ALA			40.625	52.743	31.046	1.00	2.00
MOTA	1018	N	SER			41.814	50.674	29.139	1.00	18.52
ATOM	1019	CA	SER			42.656	50.117	28.038	1.00	
ATOM ·	1020	C	SER			42.578	48.537	27.897	1.00	18.52
ATOM	1021	0	SER	Α	934	42.047	47.842	28.815	1.00	18.52
MOTA	1022	CB	SER			44.114	50.415	28.347	1.00	25.65
ATOM	1023	OG	SER	Α	934	44.983	49.645	27.568	1.00	25.65
ATOM	1026	N	THR	A	935	43.162	48.023	26.794		63.20
ATOM	1027	CA	THR	A	935	43.338	46.574	26.529		63.20
MCTA	1028	C	THR	Ą	935	44.762	46.121	26.957		63.20
ATOM	1029	o"	THR	А	935	45.084	44.947	26.871	1.00	63.20
MOTA	1030	CB	THR	A	935	43.298	46.147	25.069	1.00	29.40
ATOM	1031	OG1	THR	A	935	44.470	46.603	24.393	1.00	29.40
ATOM	1032	CG2	THR	A	935	42.095	46.590	24.385	1.00	29.40
MOTA	1035	N	LEU	A	936	45.616	47.065	27.349	1.00	6.64
ATOM	1036	CA	LEU	Α	936	46.959	46.811	27.861	1.00	6.64
MOTA	1037	C	LEU	A	936	46.654	46.775	29.277	1.00	6.64
MOTA	1038	0	LEU			45.478	46.916	29.572	1.00	6.64
ATOM	1039	СВ	LEU			47.962	47.919	27.602	1.00	2.00
ATOM	1040	CG	LEU			48.129	48.224	25.129	1.00	2.00
ATOM	1041		LEU			48.725	49.731	25.993	1.00	2.00
ATOM	1041		LEU			48.953	47.147	25.523	1.00	2.00
ATOM	1042	N	SER			47.638	46.528	30.129		38.75
	1044	CA	SER			47.437	46.434	31.555		38.75
ATOM			SER			48.615	47.041	32.342		38.75
ATOM	1046	C	ಶವನ	A	J3 /	40.0TD	7/.U4T	J2.J44	4.00	55,.5

MOTA	1047	0	SER A		49.664	47.405	31.785	1.00	
ATOM	1048	CE	SER A		47.257	44.979	31.954		80.09
ATOM	1049	OG	SER A		48.471	44.274	31.851		80.09
ATOM	1052	N	SER A		48.441	47.158	33.646	1.00	
ATOM	1053	CA	SER A		49.489	47.699	34.441		54.88
MOTA	1054	С	SER A		50.807	47.155	33.941		54.88
ATOM	1055	0	SER A		51.696	47.907	33.571		54.88
ATOM	1056	CB	SER A		49.295	47.312	35.887		69.11
MOTA	1057	OG	SER A		50.397	47.773	36.631		69.11
MOTA	1060	N	GLN A		50.906	45.831	33.902		55.81
MOTA	1061	CA	GLN A	939	52.106	45.148	33.492		55.81
ATOM	1062	C	GLN A		52.644	45.445	32.132		55.81
ATOM	1063	0	GLN A		53.750	45.896	32.027		55.81
MOTA	1064	CB	GLN A		51.924	43.650	33.615		74.76
ATOM	1065	CG	GLN A		52.012	43.126	35.014		74.76
MOTA	1066	CD	GLN A		53.409	42.973	35.514		74.76
MOTA	1067	OE1	GLN A	. 939	54.238	42.296	34.906		74.76
ATOM	1068	NE2	GLN A	. 939	53.684	43.597	36.648		74.76
MOTA	1072	N	GLN A		51.899	45.176	31.069		25.74
ATOM	1073	CA	GLN A		52.446	45.439	29.736		26.74
ATOM	1074	C	GLN A	940	52.963	46.884	29.791		26.74
ATOM	1075	0	GLN A	940	53.929	47.302	29.115		26.74
MOTA	1076	CB	GLN A	940	51.405	45.313	28.639		43.63
ATOM	1077	CG	GLN A	940	51.815	46.080	27.393		43.63
ATOM	1078	CD	GLN A	940	52.444	45.214	26.267		43.63
MOTA	1079	OE1	GLN A	940	51.734	44.544	25.479		43.63
MOTA	1080	NE2	GLN A	940	53.756	45.236	26.183		43.63
ATOM	1084	N	LEU A	941	52.300	47.595	30.698		30.59
ATOM	1085	CA	LEU A	941	52.514	48.989	30.932	1.00	30.59
MOTA	1086	С	LEU A	941	53.800	49.234	31.599		30.59
ATOM	1087	0	LEU A		54.611	49.971	31.068		30.59
ATOM	1088	CB	LEU A		51.334	49.521	31.709	1.00	27.00
ATOM	1089	CG	LEU A	941	50.344	50.390	30.959	1.00	27.00
MOTA	1090	CD1	LEU A	941	50.253	51.655	31.777	1.00	
ATOM	1091	CD2	LEU A		50.770	50.642	29.576	1.00	
MOTA	1093	N	LEU A		53.992	48.683	32.768	1.00	
ATOM	1094	CA	LEU A		55.284	48.801	33.427	1.00	26.63
MOTA	1095	С	LEU A		56.433	48.144	32.573		26.63
ATOM	1096	0.	LEU A		57.616	48.326	32.850	1.00	26.63
ATOM	1097	CB	LEU A		55.208	48.083	34.741	1.00	3.59
MOTA	1098	CG	LEU A			49.016		1.00	
MOTA	1099		LEU A		55.141		37.321	1.00	
ATOM	1100	CD2	LEU A		56.635		35.675		
ATOM	1102	N		A 943	56.084		31.562		54.79
ATOM	1103	CA	HIS A	A 943	57.101	46.756	30.741		54.79
ATOM	1104	C		A 943	57.531	47.932	29.905		54.79
MOTA	1105	0		A 943	58.389	48.665	30.324		54.79
MOTA	1106	CB	HIS .	A 943	56.530	45.638	29.852		38.35
ATOM	1107	CG	HIS .	A 943	56.799		30.345		38.35
ATOM	1108	ND1	HIS .	A 943	56.846		31.682		38.35
ATOM	1109		HIS .		56.988		29.671		38.35
MOTA	1110	CE1	L HIS	A 943	57.050		31.812		38.35
MOTA	1111	NE2	2 HIS	A 943	57.143				38.35
ATOM	1115	N	PHE	A 944	56.905			1.00	
ATOM	1116	CA	PHE	A 944	57.172			1.00	
MOTA	1117			A 944	58.218			1.00	
ATOM	1118	0	PHE	A 944	59.278	50.592	27.781	1.00	4.19

				0 4 4	~ ~ ~ ~ ~ ~	46 077	27.509	1.00 28.23
ATOM	1119	CB	PHE A		55.878	49.913		
ATOM	1120	CG	PHE A		55.036	49.255	26.489	1.00 28.23
ATOM	1121	CD1	PHE A		53.632	49.319	26.610	1.00 28.23
ATOM	1122	CD2	PHE A		55.605		25.336	1.00 28.23
MOTA	1123	CEl	PHE A		52.813	48.958	25.614	1.00 28.23
ATOM	1124	CE2	PHE A	944	54.769	48.399	24.289	1.00 28.23
MOTA	1125	CZ	PHE A.	944	53.342	48.504	24.452	1.00 28.23
MOTA	1127	N	ALA A		57.874	50.702	29.637	1.00 24.23
ATOM	1128	CA	ALA A		58.742	51.520	30.434	1.00 24.23
ATOM	1129	C	ALA A		59.943	50.648	30.375	1.00 24.23
	1130	0	ALA A		60.623	50.707	29.408	1.00 24.23
ATOM			ALA A		58.270	51.631	31.839	1.00 16.89
ATOM	1131	CB			60.153	49.775	31.366	1.00 23.93
ATOM	1133	N	ALA A				31.493	1.00 23.93
MOTA	1134	CA	ALA A		61.327	48.819		1.00 23.93
ATOM	1135	С	ALA A		62.279	48.525	30.320	
ATOM	1136	0	ALA A		63.460	48.674	30.432	1.00 23.93
MOTA	1137	CB	ALA A	946	60.834	47.495	32.054	1.00 76.24
ATOM	1139	N	ASP A	947	61.796	48.078	29.188	1.00 9.63
ATOM	1140	CA	ASP A	947	62.727	47.858	28.131	1.00 9.63
ATOM	1141	С	ASP A	947	63.169	49.132	27.456	1.00 9.63
ATOM	1142	0	ASP A	947	63.604	49.093	26.290	1.00 9.63
ATOM	1143	CB	ASP A		62.145	46.880	27.114	1.00 90.89
ATOM	1144	CG	ASP A		61.065	47.493	26.259	1.00 90.89
			ASP A		60.143	46.747	25.854	1.00 90.89
ATOM	1145				61.128	48.707	25.978	1.00 90.89
ATOM	1146	OD2				50.287	28.098	1.00 60.29
ATOM	1148	N	VAL A		63.024			1.00 60.29
MOTA	1149	CA	VAL A		63.435	51.532	27.459	
ATOM	1150	С	VAL A		64.572	51.963	28.376	
ATOM	1151	0	VAL A		65.604	52.405	27.907	1.00 60.29
ATOM	1152	CB	VAL A	948	62.213	52.606	27.324	1.00 2.00
MOTA	1153	CG1	VAL A	948	62.752	54.133	26.901	1.00 2.00
MOTA	1154	CG2	VAL A	948	61.348	52.297	26.209	1.00 2.00
MOTA	1156	N	ALA A	949	64.402	51.773	29.686	1.00 12.91
ATOM	1157	CA	ALA A	949	65.448	52.097	30.677	1.00 12.91
ATOM	1158	C	ALA A		66.681	51.382	30.188	1.00 12.91
MOTA	1159	Ō	ALA A		67.733	52.000	29.956	1.00 12.91
	1160	CB	ALA A		65.135	51.617	32.017	1.00 2.00
ATOM		И	ARG A		66.484	50.078	30.000	1.00 22.64
MOTA	1162				67.422	49.105	29.537	1.00 22.64
MOTA	1163	CA	ARG A			49.588	28.340	1.00 22.64
MOTA	1164	C	ARG A		68.106		28.386	1.00 22.64
ATOM	1165	0	ARG A		69.275	49.681		1.00 22.01
MOTA	1166	Çβ	ARG A		66.702	47.783	29.233	
ATOM	1167	CG	ARG A		67.146	46.606	30.102	1.00 87.27
ATOM	1168	CD	ARG A	950	66.806	45.233	29.493	1.00 87.27
MOTA	1169	ΝE	ARG A	950	65.466	45.208	28.912	1.00 87.27
ATOM	1170	CZ	ARG A	950	64.341	44.977	29.580	1.00 87.27
MOTA	1171	NHl	ARG A	950	64.357	44.746	30.879	1.00 87.27
ATOM	1172	NH2			63.188	45.019	28.941	1.00 87.27
	1179	N	GLY A		67.435	49.846	27.241	1.00 33.31
ATOM		CA	GLY A		68.177	50.360	26.102	1.00 33.31
MOTA	1180				68.720	51.768	26.462	1.00 33.31
ATOM	1181	С	GLY A			52.379	25.745	1.00 33.31
MOTA	1182	0	GLY A		69.514		27.588	1.00 48.02
ATOM	1184	N	MET A		68.277	52.318		1.00 48.02
MOTA	1185	CA	MET A		68.774	53.615	27.949	
MOTA	1186	C	MET A		70.030	53.440	28.759	1.00 48.02
MOTA	1187	0	MET A	952	70.861	54.316	28.719	1.00 48.02
MOTA	1188	CB	MET A	952	67.721	54.442	28.720	1.00 58.75
				•				

ATOM	1189	CG	MET	A	952	67.277	55.792	28.089	1.00	58.75
ATOM	1190	SD	MET	A.	952	67.797	56.265	26.390	1.00	58.75
ATOM	1191	CE	MET	A	952	69.079	57.471	26.826	1.00	58.75
ATOM	1193	N	ASP	A	953	70.145	52.325	29.494	1.00	30.83
ATOM	1194	CA	ASP	A	953	71.299	51.942	30.317	1.00	30.83
ATOM	1195	C	ASP	A	953	72.393	51.689	29.346	1.00	30.83
ATOM	1196	0	ASP	A	953	73.521	52.078	29.523		30.83
MOTA	1197	CB	ASP	Ą	953	71.084	50.617	30.955	1.00	30.69
MOTA	1198	CG	ASP	A	953	71.512	50.58 <i>9</i>	32.381		30.69
ATOM	1199				953	71.504	51.661	32.997		30.69
ATOM	1200	OD2	ASP	Α	953	71.838	49.485	32.907	1.00	30.69
ATOM	1202	N	TYR	Α	954	72.031	50.999	28.292	1.00	19.34
ATOM	1203	CA	TYR	Α	954	72.952	50.630	27.239	1.00	19.34
MOTA	1204	C	TYR	A	954	73.559	51.896	26.762		19.34
ATOM	1205	0	TYR			74.529	52.327	27.362	1.00	19.34
ATOM	1206	CB	TYR	A	954	72.236	49.887	26.117		37.26
MOTA	1207	CG	TYR			73.181	49.115	25.244		37.26
MOTA	1208	CD1	TYR	А	954	74.158	48.238	25.784		37.26
ATOM	1209	CD2	TYR			73.149	49.300	23.871	1.00	37.26
MOTA	1210	CEl	TYR	Α	954	75.072	47.594	24.942		37.26
MOTA	1211	CE2	TYR			74.042	48.676	23.041	1.00	37.26
MOTA	1212	CZ	TYR			74.993	47.843	23.568	1.00	37.26
MOTA	1213	OH	TYR	Α	954	75.859	47.367	22.645		37.26
MOTA	1216	N	ĿEU	А	955	72.967	52.501	25.722		49.71
ATOM	1217	CA	LEU	A	955	73.404	53.781	25.150		49.71
MOTA	1218	С	LEU	A	955	73.854	54.641	26.293	1.00	49.71
ATOM	1219	0	LEU			74.950	55.109	26.279		49.71
MOTA	1220	CB	LEU			72.272	54.530	24.439		17.74
MOTA	1221	CG	LEU			71.456	53.937	23.292		17.74
MOTA	1222	CD1				69.972	54.493	23.397	1.00	17.74
ATOM	1223	CD2				71.989	54.345	21.914	1.00	17.74
MOTA	1225	N	SER			73.012	54.840	27,293		34.64
MOTA	1226	CA	SER			73.430	55.663	28.404		34.64 34.64
ATOM	1227	C	SER			74.843	55.360	28.778		34.64
MOTA	1228	0	SER			75.701	56.218	28.579	_	37.38
MOTA	1229	CE	SER			72.561	55.495	29.622		37.38
MOTA	1230	OG	SER			73.071	56.228	30.699	1.00	33.59
MOTA	1233	N	GLN			75.134	54.188	29.321	1.00	33.59
MOTA	1234	CA	GLN			76.511	53.895	29.680	1.00	33.59
MOTA	1235	C	GLN			77.379	53.837	28.410		33.59
MOTA	1236	0	GLN			77.719	52.798	27.943		42.10
MOTA	1237	СВ			957	76.583	52.568	30.455		42.10
ATOM	1238	CG			957	76.621	52.721	32.002		42.10
ATOM	1239	CD			957	77.483	53.951	32.500		42.10
MOTA	1240		GLN			78.321	54.499	31.739		42.10
MOTA	1241	NE2			957	77.274	54.367	33.780		99.18
ATOM	1245	Ŋ			958	77.739	54.952	27.823		99.18
MOTA	1246	CA			958	78.543	54.854	26.620		99.18
MOTA	1247	С			958	78.688	56.227	26.039		99.18
ATOM	1248	0			958	79.111	56.370	24.897		99.74
MOTA	1249	CB			958	77.880	53.934	25.586		99.74
MOTA	1250	CG			958	78.545	52.582	25.404		99.74
MOTA	1251	CD			958	77.830	51.738	24.360		99.74
MOTA	1252	CE			958	77.997	50.238	24.629		99.74
MOTA	1253	NZ			958	78.459	49.456	23.434		73.45
ATOM	1258	Ŋ			959	78.327	57.233	26.832	1.00	_
MOTA	1259	CA	GLN	A	959	78.423	58.615	26.402	1.00	, 5 . 25

ATOM 1261 O GLN A 959 77.493 59.970 24.702 1.00 73.45 ATOM 1262 CB GLN A 959 79.785 58.882 25.784 1.00 19.35 ATOM 1263 CG GLN A 959 80.899 58.069 26.399 1.00 19.35 ATOM 1264 CD GLN A 959 80.957 58.449 27.805 1.00 19.35 ATOM 1265 OE1 GLN A 959 80.252 59.453 28.221 1.00 19.35 ATOM 1266 NE2 GLN A 959 81.763 57.708 28.610 1.00 19.35 ATOM 1270 N PHE A 960 76.376 58.075 25.242 1.00 36.08 ATOM 1271 CA PHE A 960 75.312 58.292 24.262 1.00 36.08 ATOM 1272 C PHE A 960 74.223 59.102 24.956 1.00 36.08 ATOM 1273 O PHE A 960 74.810 56.957 23.718 1.00 85.11 ATOM 1274 CB PHE A 960 75.670 56.407 22.614 1.00 85.11										
ATOM 1262 CB GLN A 959 77.785 58.882 25.784 1.00 19.35 ATOM 1263 CG GLN A 959 80.889 58.069 26.399 1.00 19.35 ATOM 1264 CD GLN A 959 80.889 57.58.069 26.399 1.00 19.35 ATOM 1265 OEI GLN A 959 80.252 59.453 28.221 1.00 19.35 ATOM 1266 NEZ GLN A 959 80.252 59.453 28.221 1.00 19.35 ATOM 1270 N PHE A 960 76.376 58.075 25.242 1.00 36.08 ATOM 1270 N PHE A 960 75.312 58.292 24.262 1.00 36.08 ATOM 1271 CA PHE A 960 75.312 58.292 24.262 1.00 36.08 ATOM 1272 C PHE A 960 75.312 58.292 24.262 1.00 36.08 ATOM 1273 O PHE A 960 75.515 58.075 25.242 1.00 36.08 ATOM 1273 O PHE A 960 75.670 56.407 22.614 1.00 85.11 ATOM 1275 CG PHE A 960 76.551 55.349 22.839 1.00 85.11 ATOM 1275 CG PHE A 960 76.551 55.349 22.839 1.00 85.11 ATOM 1276 CD1 PHE A 960 77.561 54.879 22.839 1.00 85.11 ATOM 1277 CD2 PHE A 960 77.561 54.879 21.822 1.00 85.11 ATOM 1278 CEI PHE A 960 77.361 54.879 21.822 1.00 85.11 ATOM 1278 CEI PHE A 960 77.361 54.879 21.822 1.00 85.11 ATOM 1278 CEI PHE A 960 77.361 54.879 21.822 1.00 85.11 ATOM 1280 CZ PHE A 960 77.361 54.879 21.822 1.00 85.11 ATOM 1280 CZ PHE A 960 77.361 54.879 21.822 1.00 85.11 ATOM 1280 CZ PHE A 960 77.361 54.879 21.822 1.00 85.11 ATOM 1280 CZ PHE A 960 77.361 54.879 21.822 1.00 85.11 ATOM 1280 CZ PHE A 960 77.361 54.879 21.822 1.00 85.11 ATOM 1280 CA ILE A 961 73.938 60.227 24.300 1.00 30.22 ATOM 1280 CA ILE A 961 73.938 60.227 24.300 1.00 30.22 ATOM 1280 CA ILE A 961 73.938 60.227 24.300 1.00 30.22 ATOM 1280 CA ILE A 961 73.936 61.233 23.713 1.00 30.22 ATOM 1287 CG1 ILE A 961 73.536 62.578 24.9911 1.00 71.39 ATOM 1287 CG1 ILE A 961 73.536 62.578 24.9911 1.00 71.39 ATOM 1289 CD1 ILE A 961 73.536 62.578 24.991 1.00 71.39 ATOM 1289 CD1 ILE A 961 73.536 62.578 24.991 1.00 71.39 ATOM 1289 CD1 ILE A 961 73.536 62.578 24.991 1.00 71.39 ATOM 1289 CD1 ILE A 961 73.536 62.578 24.991 1.00 71.39 ATOM 1289 CD1 ILE A 961 73.536 62.578 24.991 1.00 71.39 ATOM 1289 CD1 ILE A 961 73.536 62.578 24.991 1.00 71.39 ATOM 1289 CD1 ILE A 961 73.536 62.578 24.991 1.00 73.99 ATOM 1289 CD1 ILE A 961 73.536 62.578 24.991 1.00	ATOM	1260	С							
ATOM 1263 CG GLN A 959 80.957 58.069 26.399 1.00 19.35 ATOM 1264 CD GLN A 959 80.957 58.449 27.805 1.00 19.35 ATOM 1265 OEI GLN A 959 80.957 58.449 27.805 1.00 19.35 ATOM 1266 NEZ GLN A 959 80.957 57.708 28.610 1.00 19.35 ATOM 1270 N PHE A 960 76.376 58.075 25.242 1.00 36.08 ATOM 1271 CA PHE A 960 76.376 58.075 25.242 1.00 36.08 ATOM 1272 CP HE A 960 77.375 58.762 26.078 1.00 36.08 ATOM 1273 CP HE A 960 77.375 58.762 26.078 1.00 36.08 ATOM 1273 CP HE A 960 77.3754 58.762 26.078 1.00 36.08 ATOM 1273 CP HE A 960 75.507 56.497 23.718 1.00 85.11 ATOM 1276 CD PHE A 960 75.650 56.957 23.242 1.00 36.08 ATOM 1276 CD PHE A 960 75.650 56.957 23.242 1.00 36.08 ATOM 1276 CD PHE A 960 75.650 56.957 23.718 1.00 85.11 ATOM 1276 CD PHE A 960 75.650 56.957 23.718 1.00 85.11 ATOM 1276 CD PHE A 960 75.655 56.981 21.350 1.00 85.11 ATOM 1278 CE PHE A 960 77.361 54.879 21.822 1.00 85.11 ATOM 1278 CE PHE A 960 77.361 54.879 21.822 1.00 85.11 ATOM 1278 CE PHE A 960 77.361 54.879 21.822 1.00 85.11 ATOM 1280 CP HE A 960 77.361 54.879 21.822 1.00 85.11 ATOM 1280 CP HE A 960 77.361 54.879 21.822 1.00 85.11 ATOM 1280 CZ PHE A 960 77.361 54.879 21.822 1.00 85.11 ATOM 1280 CZ PHE A 960 77.361 54.879 21.822 1.00 85.11 ATOM 1280 CZ PHE A 960 77.361 54.879 21.822 1.00 85.11 ATOM 1280 CZ PHE A 960 77.361 54.879 21.822 1.00 85.11 ATOM 1280 CZ PHE A 961 72.939 61.196 24.749 1.00 30.22 ATOM 1280 CZ PHE A 961 72.939 61.262 25.545 1.00 30.22 ATOM 1280 CZ PHE A 961 72.939 61.262 25.545 1.00 30.22 ATOM 1280 CZ PHE A 961 72.112 61.422 25.545 1.00 30.22 ATOM 1280 CZ PHE A 961 72.112 61.422 25.545 1.00 30.22 ATOM 1280 CZ PHE A 961 72.112 61.422 25.545 1.00 30.22 ATOM 1280 CZ PHE A 961 72.112 61.422 25.545 1.00 30.22 ATOM 1280 CZ PHE A 961 72.112 61.422 25.545 1.00 30.92 ATOM 1280 CZ PHE A 961 72.112 61.422 25.545 1.00 30.92 ATOM 1280 CZ PHE A 961 72.112 61.422 25.545 1.00 30.92 ATOM 1280 CZ PHE A 961 72.112 61.422 25.545 1.00 30.92 ATOM 1280 CZ PHE A 961 72.112 61.422 25.545 1.00 30.92 ATOM 1280 CZ PHE A 961 72.112 61.422 25.545 1.00 30.92 ATOM 1280 CZ PH	MOTA	1261	0							
ATOM 1264 CD GLN A 955 80.252 59.453 28.221 1.00 19.35 ATOM 1266 NE2 GLN A 955 80.252 59.453 28.221 1.00 19.35 ATOM 1270 N PHE A 960 76.376 58.075 25.242 1.00 36.08 ATOM 1271 CA PHE A 960 75.312 58.292 24.262 1.00 36.08 ATOM 1271 CA PHE A 960 75.312 58.292 24.262 1.00 36.08 ATOM 1273 O PHE A 960 75.312 58.292 24.262 1.00 36.08 ATOM 1273 O PHE A 960 75.312 58.292 24.262 1.00 36.08 ATOM 1273 C PHE A 960 75.312 58.295 24.262 1.00 36.08 ATOM 1273 C PHE A 960 75.530 58.075 25.242 1.00 36.08 ATOM 1273 C PHE A 960 75.531 58.762 26.078 1.00 36.08 ATOM 1275 CG PHE A 960 76.501 56.407 22.614 1.00 85.11 ATOM 1275 CG PHE A 960 76.531 55.349 22.839 1.00 85.11 ATOM 1275 CD PHE A 960 76.531 55.349 22.839 1.00 85.11 ATOM 1277 CD2 PHE A 960 77.361 54.879 21.822 1.00 85.11 ATOM 1279 CE2 PHE A 960 77.361 54.879 21.822 1.00 85.11 ATOM 1279 CE2 PHE A 960 77.381 55.461 20.572 1.00 85.11 ATOM 1280 C2 PHE A 960 77.381 55.461 20.572 1.00 85.11 ATOM 1280 C2 PHE A 961 77.385 55.461 20.572 1.00 85.11 ATOM 1283 CA ILE A 961 77.385 56.407 22.614 1.00 30.22 ATOM 1284 C ILE A 961 77.385 60.227 24.300 1.00 30.22 ATOM 1284 C ILE A 961 77.895 61.196 24.749 1.00 30.22 ATOM 1285 CB ILE A 961 77.895 61.196 24.749 1.00 30.22 ATOM 1286 CB ILE A 961 77.895 62.578 24.991 1.00 71.39 ATOM 1288 CG ILE A 961 77.896 62.578 24.991 1.00 71.39 ATOM 1288 CG ILE A 961 77.896 62.576 25.899 1.00 71.39 ATOM 1289 CD ILE A 961 75.888 63.513 25.442 1.00 71.39 ATOM 1291 N HIS A 962 69.524 60.924 23.236 1.00 80.58 ATOM 1292 CA HIS A 962 69.524 60.924 23.236 1.00 80.58 ATOM 1292 CA HIS A 962 69.524 60.924 23.236 1.00 80.58 ATOM 1293 C HIS A 962 66.598 62.196 22.692 1.00 80.58 ATOM 1293 C HIS A 962 66.598 62.196 22.692 1.00 80.58 ATOM 1293 CA HIS A 962 66.598 69.179 62.676 21.099 1.00 39.42 ATOM 1299 CB HIS A 962 66.598 69.179 62.676 21.099 1.00 39.42 ATOM 1296 CG HIS A 962 66.598 69.179 62.676 21.099 1.00 39.42 ATOM 1299 CB HIS A 962 66.598 69.179 62.676 21.099 1.00 39.42 ATOM 1304 N ARG A 963 67.745 69.209 22.899 1.00 39.42 ATOM 1307 O ARG A 963 67.745 69.209 22.899 1.0	ATOM	1262	CB				58.882			
ATOM 1265 OPI GLN A 959 81.763 57.708 28.221 1.00 19.35 ATOM 1266 NB2 GLN A 959 81.763 57.708 26.610 1.00 19.35 ATOM 1270 N PHE A 960 76.376 58.075 25.242 1.00 36.08 ATOM 1271 CA PHE A 960 75.312 58.292 24.262 1.00 36.08 ATOM 1272 C PHE A 960 74.223 59.102 24.958 1.00 36.08 ATOM 1273 O PHE A 960 74.810 56.957 23.718 1.00 85.01 ATOM 1274 CB PHE A 960 75.670 56.407 22.614 1.00 85.11 ATOM 1275 CG PHE A 960 75.670 56.407 22.614 1.00 85.11 ATOM 1276 CD PHE A 960 76.531 55.349 22.839 1.00 85.11 ATOM 1277 CD2 PHE A 960 76.531 55.349 22.839 1.00 85.11 ATOM 1278 CEI PHE A 960 77.361 54.879 21.822 1.00 85.11 ATOM 1279 CEZ PHE A 960 77.361 54.879 21.822 1.00 85.11 ATOM 1280 CZ PHE A 960 77.338 55.461 20.572 1.00 85.11 ATOM 1281 N ILE A 961 77.393 65.505 20.330 1.00 85.11 ATOM 1282 N ILE A 961 77.393 65.505 20.330 1.00 85.11 ATOM 1283 CA ILE A 961 77.393 65.262 24.300 1.00 30.22 ATOM 1284 C ILE A 961 77.393 65.505 20.330 1.00 85.11 ATOM 1285 O ILE A 961 77.356 62.572 24.300 1.00 30.22 ATOM 1286 CG ILE A 961 77.485 61.223 23.713 1.00 30.22 ATOM 1287 CGI ILE A 961 77.485 61.223 23.713 1.00 30.22 ATOM 1288 CG ILE A 961 77.488 63.302 25.474 1.00 71.39 ATOM 1289 CH ILE A 961 74.693 62.556 25.899 1.00 77.39 ATOM 1289 CGI ILE A 961 74.693 62.556 25.899 1.00 77.39 ATOM 1289 CGI ILE A 961 74.693 62.556 25.899 1.00 77.39 ATOM 1291 N HIS A 962 66.506 60.374 24.158 1.00 80.58 ATOM 1293 C HIS A 962 66.506 69.524 60.924 23.236 1.00 80.58 ATOM 1294 O HIS A 962 66.450 60.374 24.158 1.00 80.58 ATOM 1295 CB HIS A 962 66.450 60.374 22.692 1.00 80.58 ATOM 1296 CG HIS A 962 66.450 60.374 22.692 1.00 80.58 ATOM 1297 NDI HIS A 962 66.450 60.378 22.499 1.00 39.42 ATOM 1298 CG HIS A 962 66.450 60.378 22.499 1.00 39.42 ATOM 1304 N ARG A 963 67.745 62.694 23.365 1.00 39.42 ATOM 1305 CA ARG A 963 67.745 62.694 23.365 1.00 39.42 ATOM 1307 OA ARG A 963 67.745 62.694 23.365 1.00 98.75 ATOM 1308 CB ARG A 963 67.745 62.694 23.367 1.00 25.62 ATOM 1309 CG ARG A 963 67.745 62.694 23.360 1.00 98.75 ATOM 1301 CD ARG A 963 67.745 62.694 23.360 1.00 98.75 ATOM 1	ATOM	1263	CG	GLN A	959		58.069			
ATOM 1266 NE2 GLN A 959 81.763 57.708 28.610 1.00 19.335 ATOM 1271 CA PHE A 960 76.376 58.075 25.242 1.00 36.08 ATOM 1271 CA PHE A 960 76.376 58.075 25.242 1.00 36.08 ATOM 1271 CA PHE A 960 75.312 58.292 24.262 1.00 36.08 ATOM 1273 O PHE A 960 74.233 59.102 24.955 1.00 36.08 ATOM 1273 O PHE A 960 74.810 56.957 23.718 1.00 85.11 ATOM 1274 CB PHE A 960 74.810 56.957 23.718 1.00 85.11 ATOM 1276 CD1 PHE A 960 76.507 56.07 56.07 22.614 1.00 85.11 ATOM 1276 CD1 PHE A 960 76.507 56.656 56.981 21.350 1.00 85.11 ATOM 1276 CD2 PHE A 960 75.656 56.981 21.350 1.00 85.11 ATOM 1277 CD2 PHE A 960 76.493 56.505 20.330 1.00 85.11 ATOM 1278 CE2 PHE A 960 76.493 56.505 20.330 1.00 85.11 ATOM 1280 CZ PHE A 960 77.361 54.879 21.822 1.00 85.11 ATOM 1280 CZ PHE A 960 77.386 55.655 20.330 1.00 85.11 ATOM 1280 CZ PHE A 961 73.918 60.227 24.300 1.00 30.22 ATOM 1283 CA ILE A 961 73.918 60.227 24.300 1.00 30.22 ATOM 1284 C ILE A 961 73.366 56.951 20.330 1.00 85.11 ATOM 1285 O ILE A 961 77.858 61.213 23.713 1.00 30.22 ATOM 1286 CB ILE A 961 73.366 62.566 25.899 1.00 71.39 ATOM 1287 CG1 ILE A 961 73.566 62.566 25.899 1.00 71.39 ATOM 1289 CD1 ILE A 961 73.566 62.566 25.899 1.00 71.39 ATOM 1289 CD1 ILE A 961 75.888 63.302 25.476 1.00 71.39 ATOM 1280 CG2 ILE A 961 75.888 63.302 25.476 1.00 71.39 ATOM 1280 CG2 ILE A 961 75.888 63.302 25.476 1.00 71.39 ATOM 1291 N HIS A 962 68.798 62.196 22.692 1.00 80.58 ATOM 1292 CA HIS A 962 68.798 62.196 22.692 1.00 80.58 ATOM 1295 CB HIS A 962 66.450 60.974 23.236 1.00 80.58 ATOM 1295 CB HIS A 962 66.450 60.974 23.236 1.00 80.58 ATOM 1295 CB HIS A 962 66.450 60.978 22.692 1.00 80.58 ATOM 1295 CB HIS A 962 66.450 60.978 22.499 1.00 39.42 ATOM 1290 CD1 HIS A 962 66.450 60.978 22.2997 1.00 25.62 ATOM 1304 N ARG A 963 67.745 59.585 23.008 1.00 39.42 ATOM 1305 CB ARG A 963 67.745 59.585 23.008 1.00 39.42 ATOM 1305 CB ARG A 963 67.745 59.585 22.380 1.00 98.75 ATOM 1304 N ARG A 963 67.747 63.852 22.999 1.00 25.62 ATOM 1305 CB ARG A 963 67.747 63.852 22.999 1.00 25.62 ATOM 1305 CB ARG A 963 67.747 63.852 22.999 1.0	ATOM	1264	CD	GLN A	959	80.957				
ATOM 1270 N PHE A 960 75.376 58.075 25.242 1.00 36.08 ATOM 1271 CA PHE A 960 75.312 58.292 24.262 1.00 36.08 ATOM 1272 C PHE A 960 74.223 59.102 24.955 1.00 36.08 ATOM 1273 O PHE A 960 74.223 59.102 24.955 1.00 36.08 ATOM 1273 O PHE A 960 74.810 56.957 23.718 1.00 36.08 ATOM 1275 CG PHE A 960 75.670 56.407 22.614 1.00 85.11 ATOM 1276 CD1 PHE A 960 75.670 56.407 22.614 1.00 85.11 ATOM 1276 CD1 PHE A 960 76.531 55.349 22.839 1.00 85.11 ATOM 1276 CD2 PHE A 960 76.531 55.349 21.832 1.00 85.11 ATOM 1278 CE1 PHE A 960 77.361 54.879 21.822 1.00 85.11 ATOM 1278 CE1 PHE A 960 77.361 54.879 21.822 1.00 85.11 ATOM 1280 CZ PHE A 960 77.361 54.879 21.822 1.00 85.11 ATOM 1280 CZ PHE A 960 77.338 55.461 20.572 1.00 85.11 ATOM 1280 CZ PHE A 960 77.338 55.461 20.572 1.00 85.11 ATOM 1280 CZ PHE A 961 77.338 55.461 20.572 1.00 85.11 ATOM 1282 N ILE A 961 73.918 60.227 24.300 1.00 30.22 ATOM 1285 C ILE A 961 73.918 60.227 24.300 30.22 ATOM 1286 CE ILE A 961 73.918 60.227 24.300 30.22 ATOM 1286 CE ILE A 961 73.939 61.196 24.749 1.00 30.22 ATOM 1286 CE ILE A 961 73.536 62.578 24.911 1.00 71.39 ATOM 1286 CE ILE A 961 73.536 62.578 24.911 1.00 71.39 ATOM 1287 CG1 ILE A 961 74.693 62.526 25.899 1.00 71.39 ATOM 1289 CD1 ILE A 961 74.693 62.526 25.899 1.00 71.39 ATOM 1289 CD1 ILE A 961 75.888 63.302 25.476 1.00 71.39 ATOM 1292 CA HIS A 962 69.524 60.924 23.236 1.00 80.58 ATOM 1293 C HIS A 962 69.524 60.924 23.236 1.00 80.58 ATOM 1293 C HIS A 962 66.506 69.524 23.236 1.00 80.58 ATOM 1294 O HIS A 962 66.506 69.524 23.236 1.00 80.58 ATOM 1295 CB HIS A 962 66.506 69.34 23.855 1.00 39.42 ATOM 1296 CB HIS A 962 66.506 69.34 23.855 1.00 39.42 ATOM 1297 NDI HIS A 962 66.507 62.604 23.855 1.00 39.42 ATOM 1300 NE2 HIS A 962 66.506 69.34 23.855 1.00 39.42 ATOM 1301 NE ARG A 963 67.745 62.694 23.305 1.00 89.58 ATOM 1301 NE ARG A 963 67.745 62.694 23.305 1.00 98.75 ATOM 1304 N ARG A 963 67.745 62.694 23.305 1.00 98.75 ATOM 1304 N ARG A 963 67.745 62.694 23.305 1.00 98.75 ATOM 1301 CD ARG A 963 67.745 62.822 29.99 1.00 25.62 ATOM 1301 NH ARG A 963 67.	ATOM	1265	OEl	GLN A	959		59.453			
ATOM 1271 CA PHE A 960 75.312 58.292 24.262 1.00 36.08 ATOM 1273 O PHE A 960 74.223 59.102 24.958 1.00 36.08 ATOM 1273 O PHE A 960 74.810 56.957 23.718 1.00 85.08 ATOM 1274 CB PHE A 960 74.810 56.957 23.718 1.00 85.08 ATOM 1275 CG PHE A 960 75.670 56.9647 22.614 1.00 85.11 ATOM 1276 CD1 PHE A 960 76.531 55.349 22.839 1.00 85.11 ATOM 1277 CD2 PHE A 960 75.656 56.981 21.350 1.00 85.11 ATOM 1278 CE1 PHE A 960 76.531 55.349 22.839 1.00 85.11 ATOM 1278 CE1 PHE A 960 76.493 56.505 20.330 1.00 85.11 ATOM 1279 CE2 PHE A 960 76.493 56.505 20.330 1.00 85.11 ATOM 1280 CZ PHE A 960 76.493 56.505 20.330 1.00 85.11 ATOM 1280 CZ PHE A 961 73.918 60.227 24.300 1.00 85.11 ATOM 1283 CA ILE A 961 73.918 60.227 24.300 1.00 30.22 ATOM 1283 CA ILE A 961 73.918 60.227 24.300 1.00 30.22 ATOM 1285 C ILE A 961 73.536 62.578 24.911 1.00 30.22 ATOM 1286 CB ILE A 961 73.536 62.578 24.911 1.00 71.39 ATOM 1287 CGI ILE A 961 73.566 62.578 24.911 1.00 71.39 ATOM 1288 CGZ ILE A 961 73.586 63.302 25.491 1.00 71.39 ATOM 1288 CGZ ILE A 961 74.693 62.526 25.899 1.00 71.39 ATOM 1289 CDI ILE A 961 72.488 63.518 25.442 1.00 71.39 ATOM 1289 CDI ILE A 961 72.488 63.518 25.442 1.00 71.39 ATOM 1292 CA HIS A 962 69.524 60.924 23.236 1.00 80.58 ATOM 1292 CA HIS A 962 69.524 60.924 23.236 1.00 80.58 ATOM 1293 C HIS A 962 69.796 62.576 21.629 1.00 80.58 ATOM 1293 C HIS A 962 66.564 60.924 23.236 1.00 80.58 ATOM 1295 CB HIS A 962 66.552 58.335 21.832 1.00 39.42 ATOM 1296 CG HIS A 962 66.564 60.924 23.236 1.00 80.58 ATOM 1297 NDI HIS A 962 66.565 67.762 62.692 1.00 80.58 ATOM 1299 CEI HIS A 962 66.565 67.762 62.5676 21.629 1.00 80.58 ATOM 1297 CB HIS A 962 66.560 67.52 58.335 21.832 1.00 39.42 ATOM 1300 NE2 HIS A 962 66.560 67.52 58.335 21.832 1.00 39.42 ATOM 1300 NE2 HIS A 962 66.560 67.52 58.335 21.832 1.00 39.42 ATOM 1300 NE2 HIS A 962 66.560 67.52 58.335 21.832 1.00 39.42 ATOM 1300 NE2 HIS A 962 66.560 67.52 58.335 21.832 1.00 39.42 ATOM 1300 NE2 HIS A 962 66.560 67.52 58.335 21.832 1.00 39.42 ATOM 1300 NE2 HIS A 962 66.560 67.76 59.580 21.772 1.00 39.42 AT	ATOM	1266	NE2							
ATOM 1272 C PHE A 960	ATOM	1270	N							
ATOM 1273 O PHE A 960	MOTA	1271	CA							
ATOM 1274 CB PHE A 960	MOTA	1272	C ·	PHE A	960					
ATOM 1275 CG PHE A 960	MOTA	1273	0							
ATOM 1276 CD1 PHE A 960	MOTA	1274	CB	PHE A	960					
ATOM 1277 CD2 PHE A 960	ATOM	1275	CG							
ATOM 1278 CE1 PHE A 960 77.361 54.879 21.822 1.00 85.11 ATOM 1279 CE2 PHE A 960 76.493 56.505 20.330 1.00 85.11 ATOM 1280 CZ PHE A 960 77.338 55.461 20.572 1.00 85.11 ATOM 1282 N ILE A 961 77.338 55.461 20.572 1.00 85.11 ATOM 1282 N ILE A 961 77.938 60.227 24.300 1.00 30.22 ATOM 1283 CA ILE A 961 77.938 60.227 24.300 1.00 30.22 ATOM 1285 O ILE A 961 77.939 61.196 24.749 1.00 30.22 ATOM 1285 O ILE A 961 77.1858 61.213 23.713 1.00 30.22 ATOM 1285 O ILE A 961 77.152 61.420 22.545 1.00 30.22 ATOM 1285 O ILE A 961 77.152 61.420 22.545 1.00 30.22 ATOM 1286 CE ILE A 961 77.536 62.578 24.911 1.00 71.39 ATOM 1288 CC2 ILE A 961 77.488 63.518 25.442 1.00 71.39 ATOM 1288 CC2 ILE A 961 77.488 63.518 25.442 1.00 71.39 ATOM 1289 CD1 ILE A 961 77.488 63.518 25.442 1.00 71.39 ATOM 1289 CD1 ILE A 962 69.524 60.924 23.236 1.00 80.58 ATOM 1292 CA HIS A 962 69.524 60.924 23.236 1.00 80.58 ATOM 1292 CA HIS A 962 69.524 60.924 23.236 1.00 80.58 ATOM 1292 CA HIS A 962 69.524 60.924 23.236 1.00 80.58 ATOM 1295 CB HIS A 962 68.584 59.904 23.855 1.00 39.42 ATOM 1295 CB HIS A 962 68.584 59.904 23.855 1.00 39.42 ATOM 1296 CG HIS A 962 66.450 60.378 22.499 1.00 80.58 ATOM 1299 CE1 HIS A 962 66.450 60.378 22.499 1.00 80.58 ATOM 1299 CE1 HIS A 962 66.450 60.378 22.499 1.00 39.42 ATOM 1298 CD2 HIS A 962 66.450 60.378 22.499 1.00 39.42 ATOM 1300 NE2 HIS A 962 66.450 60.378 22.499 1.00 39.42 ATOM 1300 NE2 HIS A 962 66.450 60.378 22.499 1.00 25.62 ATOM 1300 NE2 HIS A 962 66.450 60.378 22.499 1.00 25.62 ATOM 1300 NE2 ATOM 29.67 64.955 22.380 1.00 39.42 ATOM 1304 N ARG A 963 67.745 62.694 23.367 1.00 25.62 ATOM 1307 O ARG A 963 67.745 62.694 23.367 1.00 25.62 ATOM 1309 CG ARG A 963 67.745 62.694 23.367 1.00 98.75 ATOM 1310 N ARG A 963 67.775 64.955 22.380 1.00 98.75 ATOM 1311 NE ARG A 963 67.776 64.955 22.380 1.00 98.75 ATOM 1311 NE ARG A 963 67.707 64.955 22.380 1.00 98.75 ATOM 1311 NE ARG A 963 67.707 64.955 22.380 1.00 98.75 ATOM 1311 NE ARG A 963 67.707 64.955 22.380 1.00 98.75 ATOM 1312 N ARG A 963 67.707 65.821 18.801 1.00 98.75 ATOM 1312 N A	MOTA	1276	CD1							
ATOM 1279 CE2 PHE A 960	MOTA	1277	CD2							
ATOM 1280 CZ PHE A 960	MOTA	1278	CE1							
ATOM 1282 N ILE A 961 73.918 60.227 24.300 1.00 30.22 ATOM 1283 CA ILE A 961 72.939 61.196 24.749 1.00 30.22 ATOM 1284 C ILE A 961 71.858 61.213 23.713 1.00 30.22 ATOM 1285 O ILE A 961 72.112 61.420 22.545 1.00 30.22 ATOM 1286 CB ILE A 961 72.112 61.420 22.545 1.00 30.22 ATOM 1286 CB ILE A 961 74.693 62.526 25.899 1.00 71.39 ATOM 1287 CG1 ILE A 961 74.693 62.526 25.899 1.00 71.39 ATOM 1288 CG2 ILE A 961 75.888 63.518 25.442 1.00 71.39 ATOM 1289 CD1 ILE A 961 75.888 63.518 25.442 1.00 71.39 ATOM 1299 N HIS A 962 69.524 60.924 23.236 1.00 80.58 ATOM 1291 N HIS A 962 69.524 60.924 23.236 1.00 80.58 ATOM 1292 CA HIS A 962 69.524 60.924 23.236 1.00 80.58 ATOM 1293 C HIS A 962 69.179 62.676 21.629 1.00 80.58 ATOM 1295 CB HIS A 962 67.415 59.585 23.008 1.00 39.42 ATOM 1295 CB HIS A 962 67.415 59.585 23.008 1.00 39.42 ATOM 1297 ND1 HIS A 962 67.415 59.585 23.008 1.00 39.42 ATOM 1299 CH HIS A 962 66.450 60.378 22.499 1.00 39.42 ATOM 1299 CH HIS A 962 66.450 60.378 22.499 1.00 39.42 ATOM 1300 NE2 HIS A 962 66.450 60.378 22.499 1.00 39.42 ATOM 1300 NE2 HIS A 962 66.450 60.378 22.499 1.00 39.42 ATOM 1300 NE2 HIS A 963 67.745 62.694 23.835 1.00 39.42 ATOM 1300 NE2 HIS A 963 67.745 62.694 23.8367 1.00 25.62 ATOM 1305 CA ARG A 963 67.705 63.852 22.084 1.00 25.62 ATOM 1306 C ARG A 963 67.705 64.955 22.386 1.00 98.75 ATOM 1307 C ARG A 963 65.762 64.331 20.941 1.00 25.62 ATOM 1308 CB ARG A 963 67.707 64.955 22.386 1.00 98.75 ATOM 1311 NE ARG A 963 67.707 64.955 22.386 1.00 98.75 ATOM 1311 NE ARG A 963 67.707 64.955 22.386 1.00 98.75 ATOM 1311 NE ARG A 963 67.707 64.955 22.386 1.00 98.75 ATOM 1312 CZ ARG A 963 70.212 65.832 19.911 1.00 98.75 ATOM 1322 CA ARG A 963 70.212 65.832 19.911 1.00 98.75 ATOM 1322 CA ARG A 963 70.212 65.832 19.911 1.00 98.75 ATOM 1322 CA ARG A 963 60.442 63.070 22.035 1.00 47.91 ATOM 1322 CA ARG A 963 70.212 65.832 19.911 1.00 98.75 ATOM 1322 CA ARG A 963 70.212 65.832 19.911 1.00 98.75 ATOM 1322 CA ARG A 963 60.442 63.070 22.035 1.00 47.91 ATOM 1322 CA ARG A 964 63.452 60.20 60.856 21.300 1.00 47.91 ATOM	ATOM	1279	CE2							
ATOM 1283 CA ILE A 961 72.939 61.196 24.749 1.00 30.22 ATOM 1285 C HIS A 961 72.488 63.518 25.442 1.00 71.39 ATOM 1293 C HIS A 962 68.584 59.904 23.855 1.00 80.58 ATOM 1295 CB HIS A 962 66.450 60.378 22.499 1.00 39.42 ATOM 1297 ND1 HIS A 962 66.450 60.378 22.499 1.00 39.42 ATOM 1298 CD2 HIS A 962 66.450 60.378 22.499 1.00 39.42 ATOM 1290 CE1 HIS A 962 66.450 60.378 22.499 1.00 39.42 ATOM 1290 CD2 HIS A 962 66.450 60.378 22.499 1.00 39.42 ATOM 1291 ND1 ARG A 963 67.745 62.583 21.832 1.00 39.42 ATOM 1295 CD ARG A 963 67.745 62.694 23.367 1.00 39.42 ATOM 1298 CD2 HIS A 962 66.450 60.378 22.499 1.00 80.58 ATOM 1299 CD3 HIS A 962 66.450 60.378 22.499 1.00 39.42 ATOM 1300 NC2 HIS A 963 67.745 62.694 23.367 1.00 39.42 ATOM 1300 NC2 HIS A 963 67.745 62.694 23.367 1.00 25.62 ATOM 1306 C ARG A 963 67.745 62.694 23.367 1.00 25.62 ATOM 1306 C ARG A 963 67.745 62.694 23.367 1.00 25.62 ATOM 1307 O ARG A 963 67.745 62.694 23.367 1.00 25.62 ATOM 1300 NC2 HIS A 962 66.450 60.378 22.499 1.00 89.42 ATOM 1300 NC2 HIS A 963 67.745 62.694 23.367 1.00 25.62 ATOM 1306 C ARG A 963 67.745 62.694 23.367 1.00 25.62 ATOM 1306 C ARG A 963 67.745 62.694 23.367 1.00 25.62 ATOM 1307 O ARG A 963 67.745 62.694 23.367 1.00 25.62 ATOM 1307 O ARG A 963 67.745 62.694 23.367 1.00 25.62 ATOM 1307 O ARG A 963 67.745 62.694 23.367 1.00 25.62 ATOM 1307 O ARG A 963 67.745 62.694 23.367 1.00 25.62 ATOM 1307 O ARG A 963 67.745 62.694 23.367 1.00 25.62 ATOM 1307 O ARG A 963 67.745 62.694 23.367 1.00 25.62 ATOM 1307 O ARG A 963 67.745 62.694 23.367 1.00 25.62 ATOM 1307 O ARG A 963 67.745 62.694 23.367 1.00 25.62 ATOM 1307 O ARG A 963 67.745 62.694 23.367 1.00 25.62 ATOM 1307 O ARG A 963 67.745 62.694 23.367 1.00 25.62 ATOM 1307 O ARG A 963 67.745 62.694 23.367 1.00 25.62 ATOM 1307 O ARG A 963 67.745 62.694 23.367 1.00 25.62 ATOM 1307 O ARG A 963 67.745 62.694 23.367 1.00 25.62 ATOM 1307 O ARG A 963 67.745 62.694 23.367 1.00 27.77 63.852 22.380 1.00 98.75 ATOM 1314 NRL ARG A 963 67.746 62.695 22.380 1.00 98.75 ATOM 1314 NRL ARG A 963 67.776 62.696 22.380 1.00	MOTA	1280	CZ							
ATOM 1284 C ILE A 961 71.858 61.213 23.713 1.00 30.22 ATOM 1285 O ILE A 961 72.112 61.420 22.545 1.00 30.22 ATOM 1286 CB ILE A 961 73.536 62.578 24.911 1.00 71.39 ATOM 1287 CGI ILE A 961 74.693 62.526 25.899 1.00 71.39 ATOM 1288 CG2 ILE A 961 74.693 62.526 25.899 1.00 71.39 ATOM 1289 CD1 ILE A 961 75.888 63.302 25.476 1.00 71.39 ATOM 1291 N HIS A 962 69.524 60.924 23.236 1.00 80.58 ATOM 1292 CA HIS A 962 69.524 60.924 23.236 1.00 80.58 ATOM 1293 C HIS A 962 69.524 60.924 23.236 1.00 80.58 ATOM 1293 C HIS A 962 69.179 62.676 21.629 1.00 80.58 ATOM 1295 CB HIS A 962 68.584 59.904 23.855 1.00 39.42 ATOM 1296 CG HIS A 962 67.415 59.585 23.008 1.00 39.42 ATOM 1299 CD1 HIS A 962 66.450 60.378 22.499 1.00 39.42 ATOM 1299 CD2 HIS A 962 66.450 60.378 22.499 1.00 39.42 ATOM 1299 CD2 HIS A 962 66.450 60.378 22.499 1.00 39.42 ATOM 1300 NE2 HIS A 962 66.652 58.335 21.832 1.00 39.42 ATOM 1300 NE2 HIS A 962 66.450 60.378 22.499 1.00 39.42 ATOM 1300 NE2 HIS A 962 65.617 59.580 21.772 1.00 39.42 ATOM 1305 CA ARG A 963 67.745 62.694 23.367 1.00 25.62 ATOM 1306 C ARG A 963 67.745 62.694 23.367 1.00 25.62 ATOM 1306 C ARG A 963 67.745 62.694 23.367 1.00 25.62 ATOM 1308 CB ARG A 963 65.777 63.852 22.084 1.00 25.62 ATOM 1308 CB ARG A 963 65.777 64.955 22.380 1.00 98.75 ATOM 1310 CD ARG A 963 67.797 64.955 22.380 1.00 98.75 ATOM 1311 NE ARG A 963 67.797 64.955 22.380 1.00 98.75 ATOM 1312 CZ ARG A 963 67.7071 65.501 21.087 1.00 98.75 ATOM 1312 CZ ARG A 963 67.7071 65.501 21.087 1.00 98.75 ATOM 1312 CZ ARG A 963 67.7071 65.501 21.087 1.00 98.75 ATOM 1322 CA ASN A 964 63.453 63.377 20.538 1.00 47.91 ATOM 1322 CA ASN A 964 63.453 63.377 20.538 1.00 47.91 ATOM 1322 CA ASN A 964 63.453 63.377 20.538 1.00 47.91 ATOM 1322 CB ASN A 964 63.453 65.039 18.977 1.00 84.77 ATOM 1326 CB ASN A 964 63.453 65.377 20.538 1.00 47.91 ATOM 1322 CB ASN A 964 63.453 65.377 20.538 1.00 47.91 ATOM 1322 CB ASN A 964 63.453 65.309 18.977 1.00 84.77 ATOM 1326 CB ASN A 964 63.666 60.856 21.302 20.051 1.00 47.91 ATOM 1322 CB ASN A 964 63.666 60.850 20.90 20.90 1.00	MOTA	1282	N							
ATOM 1285 C ILE A 961 72.112 61.420 22.545 1.00 30.22 ATOM 1286 CB ILE A 961 73.536 62.578 24.911 1.00 71.39 ATOM 1287 CG1 ILE A 961 74.693 62.526 25.899 1.00 71.39 ATOM 1288 CG2 ILE A 961 75.888 63.518 25.442 1.00 71.39 ATOM 1289 CD1 ILE A 961 75.888 63.302 25.476 1.00 71.39 ATOM 1291 N HIS A 962 70.627 61.034 24.158 1.00 80.58 ATOM 1292 CA HIS A 962 68.798 62.196 22.692 1.00 80.58 ATOM 1293 C HIS A 962 68.798 62.196 22.692 1.00 80.58 ATOM 1294 O HIS A 962 68.584 59.904 23.236 1.00 80.58 ATOM 1295 CB HIS A 962 68.584 59.904 23.855 1.00 39.42 ATOM 1296 CG HIS A 962 67.415 59.585 23.008 1.00 39.42 ATOM 1297 ND1 HIS A 962 67.415 59.585 23.008 1.00 39.42 ATOM 1298 CD2 HIS A 962 66.450 60.378 22.499 1.00 39.42 ATOM 1299 CE1 HIS A 962 66.450 60.378 22.499 1.00 39.42 ATOM 1300 NE2 HIS A 962 66.650 63.378 22.499 1.00 39.42 ATOM 1300 NE2 HIS A 962 65.617 59.580 21.772 1.00 39.42 ATOM 1300 NE2 HIS A 962 65.617 59.580 21.772 1.00 39.42 ATOM 1300 NE2 HIS A 963 67.008 63.920 22.979 1.00 25.62 ATOM 1305 CA ARG A 963 65.762 64.331 20.941 1.00 25.62 ATOM 1306 C ARG A 963 67.977 64.955 22.380 1.00 98.75 ATOM 1310 CD ARG A 963 67.977 64.955 22.380 1.00 98.75 ATOM 1311 NE ARG A 963 67.977 64.955 22.380 1.00 98.75 ATOM 1312 CZ ARG A 963 70.210 66.016 22.356 1.00 98.75 ATOM 1313 NHL ARG A 963 70.210 66.680 19.852 1.00 98.75 ATOM 1311 NE ARG A 963 70.718 65.321 18.801 1.00 98.75 ATOM 1312 CZ ARG A 963 70.718 65.321 18.801 1.00 98.75 ATOM 1311 NE ARG A 963 69.200 66.680 19.852 1.00 98.75 ATOM 1312 CZ ARG A 963 70.717 65.321 18.801 1.00 98.75 ATOM 1321 N ASN A 964 63.442 63.070 22.035 1.00 47.91 ATOM 1322 CA ASN A 964 63.453 63.377 20.538 1.00 47.91 ATOM 1323 N ASN A 964 63.453 63.377 20.538 1.00 84.77 ATOM 1324 N ASN A 964 63.453 63.377 20.538 1.00 84.77 ATOM 1325 CB ASN A 964 63.453 63.377 20.538 1.00 84.77 ATOM 1326 CG ASN A 964 63.453 66.1249 23.509 1.00 84.77 ATOM 1327 OD1 ASN A 964 63.465 60.399 18.977 1.00 84.77 ATOM 1328 N D2 ASN A 964 63.665 65.039 18.977 1.00 84.77	MOTA	1283	CA							
ATOM 1285	MOTA	1284	C.							
ATOM 1287 CG1 ILE A 961 74.693 62.526 25.899 1.00 71.39 ATOM 1288 CG2 ILE A 961 72.488 63.518 25.442 1.00 71.39 ATOM 1289 CD1 ILE A 961 75.888 63.518 25.442 1.00 71.39 ATOM 1291 N HIS A 962 70.627 61.034 24.158 1.00 80.58 ATOM 1292 CA HIS A 962 69.524 60.924 23.236 1.00 80.58 ATOM 1293 C HIS A 962 69.524 60.924 23.236 1.00 80.58 ATOM 1293 C HIS A 962 69.179 62.676 21.629 1.00 80.58 ATOM 1295 CB HIS A 962 68.584 59.904 23.855 1.00 39.42 ATOM 1296 CG HIS A 962 67.415 59.585 23.008 1.00 39.42 ATOM 1297 ND1 HIS A 962 66.450 60.378 22.499 1.00 39.42 ATOM 1299 CE1 HIS A 962 66.450 60.378 22.499 1.00 39.42 ATOM 1290 CE1 HIS A 962 66.450 60.378 22.499 1.00 39.42 ATOM 1300 NE2 HIS A 962 66.5617 59.580 21.772 1.00 39.42 ATOM 1300 NE2 HIS A 962 65.617 59.580 21.772 1.00 39.42 ATOM 1300 NE2 HIS A 963 67.745 62.694 23.367 1.00 25.62 ATOM 1305 CA ARG A 963 67.745 62.694 23.367 1.00 25.62 ATOM 1306 C ARG A 963 67.745 62.694 23.367 1.00 25.62 ATOM 1307 O ARG A 963 67.745 62.694 23.367 1.00 25.62 ATOM 1309 CG ARG A 963 65.772 64.955 22.084 1.00 98.75 ATOM 1310 CD ARG A 963 67.977 64.955 22.380 1.00 98.75 ATOM 1310 CD ARG A 963 67.977 64.955 22.380 1.00 98.75 ATOM 1311 NE ARG A 963 70.210 66.680 19.852 1.00 98.75 ATOM 1311 NE ARG A 963 70.210 66.680 19.852 1.00 98.75 ATOM 1313 NH1 ARG A 963 70.210 66.680 19.852 1.00 98.75 ATOM 1313 NH1 ARG A 963 70.212 65.832 19.911 1.00 98.75 ATOM 1314 NH2 ARG A 963 70.718 65.501 21.087 1.00 98.75 ATOM 1313 NH1 ARG A 963 69.200 66.680 19.852 1.00 98.75 ATOM 1314 NH2 ARG A 963 70.716 65.321 18.801 1.00 98.75 ATOM 1313 NH1 ARG A 963 69.200 66.680 19.852 1.00 98.75 ATOM 1324 O ASN A 964 63.453 63.377 20.538 1.00 47.91 ATOM 1325 CB ASN A 964 63.453 63.377 20.538 1.00 47.91 ATOM 1324 O ASN A 964 63.453 63.377 20.538 1.00 47.91 ATOM 1325 CB ASN A 964 63.453 63.377 20.538 1.00 84.77 ATOM 1326 CR ASN A 964 63.453 63.377 20.538 1.00 84.77 ATOM 1326 CR ASN A 964 63.453 63.366 61.249 23.509 1.00 96.70 84.770 ATOM 1322 CR ASN A 964 63.453 64.459 20.153 1.00 84.77 ATOM 1322 CR ASN A 964 63.463 69.29 20.905	MOTA	1285	0							
ATOM 1288 CG2 ILE A 961 72.488 63.518 25.442 1.00 71.39 ATOM 1289 CD1 ILE A 961 75.888 63.302 25.476 1.00 71.39 ATOM 1291 N HIS A 962 70.627 61.034 24.158 1.00 80.58 ATOM 1292 CA HIS A 962 69.524 60.924 23.236 1.00 80.58 ATOM 1293 C HIS A 962 68.798 62.196 22.692 1.00 80.58 ATOM 1294 O HIS A 962 68.798 62.196 22.692 1.00 80.58 ATOM 1295 CB HIS A 962 68.584 59.904 23.855 1.00 39.42 ATOM 1297 ND1 HIS A 962 67.415 59.585 23.008 1.00 39.42 ATOM 1298 CD2 HIS A 962 66.450 60.378 22.499 1.00 39.42 ATOM 1299 CE1 HIS A 962 66.450 60.378 22.499 1.00 39.42 ATOM 1299 CE1 HIS A 962 66.650 52 58.335 21.832 1.00 39.42 ATOM 1300 NE2 HIS A 962 66.650 59.580 21.772 1.00 39.42 ATOM 1304 N ARG A 963 67.745 62.694 23.367 1.00 25.62 ATOM 1305 CA ARG A 963 67.745 62.694 23.367 1.00 25.62 ATOM 1306 C ARG A 963 67.705 63.852 22.084 1.00 25.62 ATOM 1307 O ARG A 963 67.776 64.955 22.380 1.00 98.75 ATOM 1309 CG ARG A 963 67.977 64.955 22.380 1.00 98.75 ATOM 1310 CD ARG A 963 67.977 64.955 22.380 1.00 98.75 ATOM 1311 NE ARG A 963 69.318 65.061 23.081 1.00 98.75 ATOM 1311 NE ARG A 963 70.230 66.016 22.356 1.00 98.75 ATOM 1311 NE ARG A 963 70.230 66.680 19.852 1.00 98.75 ATOM 1312 CZ ARG A 963 70.716 65.501 21.087 1.00 98.75 ATOM 1321 N ASN A 964 63.426 63.070 22.035 1.00 47.91 ATOM 1322 CA ASN A 964 63.453 63.377 20.538 1.00 98.75 ATOM 1322 CA ASN A 964 63.453 63.377 20.538 1.00 98.75 ATOM 1322 CA ASN A 964 63.453 63.377 20.538 1.00 98.75 ATOM 1324 O ASN A 964 63.453 63.377 20.538 1.00 98.75 ATOM 1322 CA ASN A 964 63.453 63.377 20.538 1.00 47.91 ATOM 1322 CA ASN A 964 63.453 63.377 20.538 1.00 47.91 ATOM 1322 CA ASN A 964 63.453 63.377 20.538 1.00 47.91 ATOM 1322 CA ASN A 964 63.453 63.377 20.538 1.00 47.91 ATOM 1322 CA ASN A 964 63.453 64.459 20.153 1.00 47.91 ATOM 1322 CA ASN A 964 63.453 63.377 20.538 1.00 47.91 ATOM 1322 CA ASN A 964 63.453 64.459 20.153 1.00 47.91 ATOM 1322 CA ASN A 964 63.453 64.459 20.153 1.00 47.91 ATOM 1322 CA ASN A 964 63.453 63.366 61.249 23.509 1.00 96.70 47.91 ATOM 1322 CA ASN A 964 63.453 64.459 20.153 1.00 47	MOTA	1286	CB							
ATOM 1289 CD1 ILE A 961	MOTA	1287	CG1	ILE A						
ATOM 1291 N HIS A 962 70.627 61.034 24.158 1.00 80.58 ATOM 1292 CA HIS A 962 69.524 60.924 23.236 1.00 80.58 ATOM 1293 C HIS A 962 68.798 62.196 22.692 1.00 80.58 ATOM 1294 O HIS A 962 69.179 62.676 21.629 1.00 80.58 ATOM 1295 CB HIS A 962 68.584 59.904 23.855 1.00 39.42 ATOM 1296 CG HIS A 962 67.415 59.585 23.008 1.00 39.42 ATOM 1297 ND1 HIS A 962 67.415 59.585 23.008 1.00 39.42 ATOM 1298 CD2 HIS A 962 66.450 60.378 22.499 1.00 39.42 ATOM 1299 CEI HIS A 962 66.650 60.378 22.499 1.00 39.42 ATOM 1290 CEI HIS A 962 66.650 58.335 21.832 1.00 39.42 ATOM 1300 NE2 HIS A 962 65.617 59.580 21.772 1.00 39.42 ATOM 1300 NE2 HIS A 962 65.617 59.580 21.772 1.00 39.42 ATOM 1300 N ARG A 963 67.745 62.694 23.367 1.00 25.62 ATOM 1305 CA ARG A 963 65.777 63.852 22.979 1.00 25.62 ATOM 1306 C ARG A 963 65.777 63.852 22.084 1.00 25.62 ATOM 1308 CB ARG A 963 65.762 64.331 20.941 1.00 25.62 ATOM 1308 CB ARG A 963 65.762 64.331 20.941 1.00 25.62 ATOM 1310 CD ARG A 963 67.977 64.955 22.380 1.00 98.75 ATOM 1310 CD ARG A 963 67.977 64.955 22.380 1.00 98.75 ATOM 1310 CD ARG A 963 70.230 66.016 22.356 1.00 98.75 ATOM 1311 NE ARG A 963 70.210 65.832 19.911 1.00 98.75 ATOM 1312 N ASN A 964 64.738 63.276 22.661 1.00 47.91 ATOM 1321 N ASN A 964 63.235 61.618 22.246 1.00 47.91 ATOM 1322 CA ASN A 964 63.442 63.070 22.035 1.00 47.91 ATOM 1324 O ASN A 964 63.453 63.377 22.2661 1.00 47.91 ATOM 1324 O ASN A 964 63.453 63.377 22.2661 1.00 47.91 ATOM 1324 O ASN A 964 63.453 63.377 22.2661 1.00 47.91 ATOM 1325 CB ASN A 964 63.453 63.377 22.365 1.00 98.75 ATOM 1324 O ASN A 964 63.453 63.377 22.2661 1.00 47.91 ATOM 1325 CB ASN A 964 63.453 63.377 22.355 1.00 84.77 ATOM 1326 CG ASN A 964 63.453 63.377 22.535 1.00 84.77 ATOM 1326 CG ASN A 964 63.453 65.039 18.977 1.00 84.77 ATOM 1328 ND2 ASN A 964 62.653 65.039 18.977 1.00 84.77 ATOM 1328 ND2 ASN A 964 62.653 65.039 18.977 1.00 84.77 ATOM 1328 ND2 ASN A 964 62.653 65.039 18.977 1.00 84.77 ATOM 1328 ND2 ASN A 964 62.653 65.039 18.977 1.00 96.70 ATOM 1328 ND2 ASN A 964 62.653 65.039 18.977 1.00 96.70 ATOM 13	MOTA	1288	CG2							
ATOM 1291 N HIS A 962 ATOM 1292 CA HIS A 962 ATOM 1293 C HIS A 962 ATOM 1294 O HIS A 962 ATOM 1295 CB HIS A 962 ATOM 1295 CB HIS A 962 ATOM 1296 CG HIS A 962 ATOM 1297 ND1 HIS A 962 ATOM 1297 ND1 HIS A 962 ATOM 1298 CD2 HIS A 962 ATOM 1299 CE1 HIS A 962 ATOM 1299 CE1 HIS A 962 ATOM 1299 CE1 HIS A 962 ATOM 1300 NE2 HIS A 962 ATOM 1300 NE2 HIS A 962 ATOM 1301 NE2 HIS A 962 ATOM 1305 CA ARG A 963 ATOM 1306 C ARG A 963 ATOM 1307 O ARG A 963 ATOM 1309 CG ARG A 963 ATOM 1309 CG ARG A 963 ATOM 1310 CD ARG A 963 ATOM 1310 CD ARG A 963 ATOM 1311 NE ARG A 963 ATOM 1312 CZ ARG A 963 ATOM 1312 CZ ARG A 963 ATOM 1313 NH1 ARG A 963 ATOM 1314 NH2 ARG A 963 ATOM 1322 CA ASN A 964 ATOM 1324 O ASN A 964 ATOM 1325 CB ASN A 964 ATOM 1326 CG ASN A 964 ATOM 1328 ND2 ASN A 964 ATOM 1327 ND2 ASN A 964 ATOM 1328 ND2 ASN A 964 ATOM 1332 N LEU A 965 ATOM 1332	ATOM	1289	CD1	ILE A	961					
ATOM 1292 C HIS A 962 68.798 62.196 22.692 1.00 80.58 ATOM 1294 O HIS A 962 69.179 62.676 21.629 1.00 80.58 ATOM 1295 CB HIS A 962 68.584 59.904 23.855 1.00 39.42 ATOM 1296 CG HIS A 962 67.415 59.585 23.008 1.00 39.42 ATOM 1297 ND1 HIS A 962 66.450 60.378 22.499 1.00 39.42 ATOM 1299 CE1 HIS A 962 66.450 60.378 22.499 1.00 39.42 ATOM 1299 CE1 HIS A 962 66.052 58.335 21.832 1.00 39.42 ATOM 1300 NE2 HIS A 962 65.617 59.580 21.772 1.00 39.42 ATOM 1304 N ARG A 963 67.745 62.694 23.367 1.00 25.62 ATOM 1305 CA ARG A 963 67.008 63.920 22.979 1.00 25.62 ATOM 1306 C ARG A 963 65.762 64.331 20.941 1.00 25.62 ATOM 1308 CB ARG A 963 65.762 64.331 20.941 1.00 25.62 ATOM 1310 CD ARG A 963 67.977 64.955 22.380 1.00 98.75 ATOM 1311 NE ARG A 963 70.230 66.016 22.356 1.00 98.75 ATOM 1312 CZ ARG A 963 70.212 65.832 19.911 1.00 98.75 ATOM 1313 NH1 ARG A 963 70.718 65.501 21.087 1.00 98.75 ATOM 1321 N ASN A 964 63.422 63.070 22.035 1.00 98.75 ATOM 1321 N ASN A 964 63.424 63.070 22.035 1.00 98.75 ATOM 1322 CA ASN A 964 63.424 63.070 22.035 1.00 47.91 ATOM 1322 CA ASN A 964 63.425 63.476 22.661 1.00 47.91 ATOM 1322 CA ASN A 964 63.453 63.377 20.538 1.00 98.75 ATOM 1322 CA ASN A 964 63.453 63.377 20.538 1.00 98.75 ATOM 1322 CA ASN A 964 63.453 63.377 20.538 1.00 47.91 ATOM 1325 CB ASN A 964 63.453 63.377 20.538 1.00 47.91 ATOM 1324 O ASN A 964 63.453 63.377 20.538 1.00 47.91 ATOM 1325 CB ASN A 964 63.453 63.377 20.538 1.00 47.91 ATOM 1325 CB ASN A 964 63.453 63.377 20.538 1.00 47.91 ATOM 1326 CG ASN A 964 63.453 63.377 20.538 1.00 47.91 ATOM 1326 CG ASN A 964 63.453 63.377 20.538 1.00 47.91 ATOM 1328 ND2 ASN A 964 62.653 65.039 18.977 1.00 84.77 ATOM 1328 ND2 ASN A 964 62.653 65.039 18.977 1.00 84.77 ATOM 1328 ND2 ASN A 964 62.653 65.039 18.977 1.00 84.77 ATOM 1328 ND2 ASN A 964 62.653 65.039 18.977 1.00 84.77 ATOM 1328 ND2 ASN A 964 62.653 65.039 18.977 1.00 84.77 ATOM 1328 ND2 ASN A 964 62.653 65.039 18.977 1.00 84.77 ATOM 1328 ND2 ASN A 964 62.653 65.039 18.977 1.00 84.77 ATOM 1328 ND2 ASN A 964 62.653 65.039 18.977 1.00 96.70	MOTA	1291	N							
ATOM 1293 C HIS A 962 69.179 62.676 21.629 1.00 80.58 ATOM 1295 CB HIS A 962 68.584 59.904 23.855 1.00 39.42 ATOM 1296 CG HIS A 962 67.415 59.585 23.008 1.00 39.42 ATOM 1297 ND1 HIS A 962 67.415 59.585 23.008 1.00 39.42 ATOM 1298 CD2 HIS A 962 66.450 60.378 22.499 1.00 39.42 ATOM 1299 CE1 HIS A 962 66.655 58.335 21.832 1.00 39.42 ATOM 1300 NE2 HIS A 962 66.5617 59.580 21.772 1.00 39.42 ATOM 1304 N ARG A 963 67.745 62.694 23.367 1.00 25.62 ATOM 1305 CA ARG A 963 67.008 63.920 22.979 1.00 25.62 ATOM 1306 C ARG A 963 65.777 63.852 22.084 1.00 25.62 ATOM 1307 O ARG A 963 65.776 64.955 22.380 1.00 98.75 ATOM 1300 CD ARG A 963 67.977 64.955 22.380 1.00 98.75 ATOM 1310 CD ARG A 963 69.318 65.061 23.081 1.00 98.75 ATOM 1311 NE ARG A 963 70.230 66.016 22.356 1.00 98.75 ATOM 1312 CZ ARG A 963 70.212 65.832 19.911 1.00 98.75 ATOM 1313 NH1 ARG A 963 69.200 66.680 19.855 1.00 98.75 ATOM 1313 NH1 ARG A 963 69.200 66.680 19.855 1.00 98.75 ATOM 1312 CZ ARG A 963 70.718 65.501 21.087 1.00 98.75 ATOM 1312 NH1 ARG A 963 69.200 66.680 19.855 1.00 98.75 ATOM 1321 N ASN A 964 64.738 63.276 22.661 1.00 98.75 ATOM 1322 CA ASN A 964 63.442 63.070 22.035 1.00 47.91 ATOM 1322 CA ASN A 964 63.442 63.070 22.035 1.00 47.91 ATOM 1324 O ASN A 964 63.442 63.070 22.035 1.00 47.91 ATOM 1325 CB ASN A 964 63.442 63.070 22.035 1.00 47.91 ATOM 1326 CG ASN A 964 63.453 63.377 20.538 1.00 47.91 ATOM 1326 CG ASN A 964 63.453 63.377 20.538 1.00 47.91 ATOM 1326 CG ASN A 964 63.453 63.377 20.538 1.00 47.91 ATOM 1326 CG ASN A 964 63.453 63.377 20.538 1.00 47.91 ATOM 1327 OD1 ASN A 964 62.653 65.039 18.977 1.00 84.77 ATOM 1328 ND2 ASN A 964 62.653 65.039 18.977 1.00 84.77 ATOM 1328 ND2 ASN A 964 62.653 65.039 18.977 1.00 84.77 ATOM 1328 ND2 ASN A 964 62.653 65.039 18.977 1.00 84.77 ATOM 1328 ND2 ASN A 964 62.653 65.039 18.977 1.00 84.77 ATOM 1328 ND2 ASN A 964 62.653 65.039 18.977 1.00 84.77 ATOM 1328 ND2 ASN A 964 62.653 65.039 18.977 1.00 84.77 ATOM 1328 ND2 ASN A 964 63.366 61.249 23.509 1.00 96.70 65.00 96.70 96.70 96.70 96.70 96.70 96.70 96.70 96.70 96	ATOM	1292	CA							
ATOM 1295 CB HIS A 962 68.584 59.904 23.855 1.00 39.42 ATOM 1296 CG HIS A 962 67.415 59.585 23.008 1.00 39.42 ATOM 1297 ND1 HIS A 962 67.142 58.316 22.575 1.00 39.42 ATOM 1298 CD2 HIS A 962 66.450 60.378 22.499 1.00 39.42 ATOM 1299 CE1 HIS A 962 66.652 58.335 21.832 1.00 39.42 ATOM 1300 NE2 HIS A 962 65.617 59.580 21.772 1.00 39.42 ATOM 1300 NE2 HIS A 962 65.617 59.580 21.772 1.00 39.42 ATOM 1305 CA ARG A 963 67.745 62.694 23.367 1.00 25.62 ATOM 1306 C ARG A 963 65.777 63.852 22.084 1.00 25.62 ATOM 1307 O ARG A 963 65.762 64.331 20.941 1.00 25.62 ATOM 1308 CB ARG A 963 67.977 64.955 22.380 1.00 98.75 ATOM 1310 CD ARG A 963 69.318 65.061 23.081 1.00 98.75 ATOM 1311 NE ARG A 963 70.230 66.016 22.356 1.00 98.75 ATOM 1312 CZ ARG A 963 70.212 65.832 19.911 1.00 98.75 ATOM 1313 NH1 ARG A 963 70.718 65.501 21.087 1.00 98.75 ATOM 1314 NH2 ARG A 963 70.718 65.501 21.087 1.00 98.75 ATOM 1312 CZ ARG A 963 70.718 65.501 21.087 1.00 98.75 ATOM 1314 NH2 ARG A 963 70.717 65.321 18.801 1.00 98.75 ATOM 1312 CZ ARG A 963 70.717 65.321 18.801 1.00 98.75 ATOM 1322 CA ASN A 964 64.738 63.276 22.661 1.00 47.91 ATOM 1322 CA ASN A 964 63.442 63.070 22.035 1.00 47.91 ATOM 1322 CA ASN A 964 63.235 61.618 22.246 1.00 47.91 ATOM 1324 O ASN A 964 63.235 61.618 22.246 1.00 47.91 ATOM 1325 CB ASN A 964 63.453 63.377 20.538 1.00 47.91 ATOM 1326 CG ASN A 964 63.453 63.377 20.538 1.00 47.91 ATOM 1326 CG ASN A 964 63.453 63.377 20.538 1.00 47.91 ATOM 1326 CG ASN A 964 63.453 63.377 20.538 1.00 47.91 ATOM 1326 CG ASN A 964 63.453 63.377 20.538 1.00 47.91 ATOM 1326 CG ASN A 964 63.453 64.459 20.153 1.00 84.77 ATOM 1328 ND2 ASN A 964 62.653 65.039 18.977 1.00 84.77 ATOM 1328 ND2 ASN A 964 62.653 65.039 18.977 1.00 84.77 ATOM 1328 ND2 ASN A 964 62.653 65.039 18.977 1.00 84.77 ATOM 1328 ND2 ASN A 964 62.653 65.039 18.977 1.00 84.77 ATOM 1328 ND2 ASN A 964 62.653 65.039 18.977 1.00 84.77 ATOM 1328 ND2 ASN A 964 62.653 65.039 18.977 1.00 96.70 ATOM 1332 N LEU A 965 63.366 61.249 23.3509 1.00 96.70 ATOM 1332 N LEU A 965 63.366 61.249 23.3509 1.00 96.70	MOTA	1293	С		-					
ATOM 1296 CG HIS A 962 ATOM 1297 ND1 HIS A 962 ATOM 1298 CD2 HIS A 962 ATOM 1298 CD2 HIS A 962 ATOM 1299 CE1 HIS A 962 ATOM 1300 NE2 HIS A 962 ATOM 1300 NE2 HIS A 962 ATOM 1304 N ARG A 963 ATOM 1305 CA ARG A 963 ATOM 1306 C ARG A 963 ATOM 1307 O ARG A 963 ATOM 1308 CB ARG A 963 ATOM 1309 CG ARG A 963 ATOM 1310 CD ARG A 963 ATOM 1310 NE ARG A 963 ATOM 1310 CD ARG A 963 ATOM 1310 CD ARG A 963 ATOM 1310 CD ARG A 963 ATOM 1311 NE ARG A 963 ATOM 1312 CZ ARG A 963 ATOM 1312 CZ ARG A 963 ATOM 1313 NH1 ARG A 963 ATOM 1314 NH2 ARG A 963 ATOM 1315 CZ ARG A 963 ATOM 1316 CZ ARG A 963 ATOM 1317 NH1 ARG A 963 ATOM 1318 NH1 ARG A 963 ATOM 1318 NH1 ARG A 963 ATOM 1318 NH1 ARG A 963 ATOM 1314 NH2 ARG A 963 ATOM 1315 CZ ARG A 963 ATOM 1316 CZ ARG A 963 ATOM 1317 NH1 ARG A 963 ATOM 1318 NH1 ARG A 963 ATOM 1318 NH2 ARG A 963 ATOM 1319 CZ ARG A 963 ATOM 1310 CZ ARG A 963 ATOM 1312 CZ ARG A 963 ATOM 1312 CZ ARG A 963 ATOM 1314 NH2 ARG A 963 ATOM 1314 NH2 ARG A 963 ATOM 1315 CZ ARG A 963 ATOM 1316 NH1 ARG A 963 ATOM 1317 NH2 ARG A 963 ATOM 1318 NH1 ARG A 963 ATOM 1318 NH2 ARG A 963 ATOM 1320 CA ASN A 964 ATOM 1321 N ASN A 964 ATOM 1322 CA ASN A 964 ATOM 1323 C ASN A 964 ATOM 1324 O ASN A 964 ATOM 1325 CB ASN A 964 ATOM 1326 CG ASN A 964 ATOM 1327 OD1 ASN A 964 ATOM 1328 ND2 ASN A	MOTA	1294	0							
ATOM 1297 ND1 HIS A 962 ATOM 1297 ND1 HIS A 962 ATOM 1298 CD2 HIS A 962 ATOM 1299 CE1 HIS A 962 ATOM 1300 NE2 HIS A 962 ATOM 1300 NE2 HIS A 962 ATOM 1304 N ARG A 963 ATOM 1305 CA ARG A 963 ATOM 1306 C ARG A 963 ATOM 1307 O ARG A 963 ATOM 1308 CB ARG A 963 ATOM 1309 CG ARG A 963 ATOM 1309 CG ARG A 963 ATOM 1310 CD ARG A 963 ATOM 1310 NE2 ARG A 963 ATOM 1310 CD ARG A 963 ATOM 1311 NE ARG A 963 ATOM 1311 NE ARG A 963 ATOM 1312 CZ ARG A 963 ATOM 1312 NH1 ARG A 963 ATOM 1313 NH1 ARG A 963 ATOM 1314 NH2 ARG A 963 ATOM 1315 NH2 ARG A 963 ATOM 1316 NH2 ARG A 963 ATOM 1317 NH2 ARG A 963 ATOM 1318 NH2 ARG A 963 ATOM 1320 CA ASN A 964 ATOM 1321 NASN A 964 ATOM 1322 CA ASN A 964 ATOM 1323 C ASN A 964 ATOM 1324 O ASN A 964 ATOM 1325 CB ASN A 964 ATOM 1326 CG ASN A 964 ATOM 1327 OD1 ASN A 964 ATOM 1328 ND2 ASN A 964 ATOM 1329 ND2 ASN A 964 ATOM 1320 ND2 ASN A 964 ATOM 1320 ND2 ASN A 964 ATOM 1322 ND2 ASN A 964 ATOM 1323 ND2 ASN A 964 ATOM 1328 ND2 ASN A 964 ATOM 1328 ND2 ASN A 964 ATOM 1328 ND2 ASN A 964 ATOM 1329 ND2 ASN A 964 ATOM 1328 ND2 ASN A 964 ATOM 1329 ND2 ASN A 964 ATOM 132	MOTA	1295	CB							
ATOM 1298 CD2 HIS A 962 ATOM 1299 CE1 HIS A 962 ATOM 1300 NE2 HIS A 962 ATOM 1304 N ARG A 963 ATOM 1305 CA ARG A 963 ATOM 1306 C ARG A 963 ATOM 1307 O ARG A 963 ATOM 1309 CG ARG A 963 ATOM 1309 CG ARG A 963 ATOM 1309 CG ARG A 963 ATOM 1310 CD ARG A 963 ATOM 1310 CD ARG A 963 ATOM 1311 NE ARG A 963 ATOM 1312 CZ ARG A 963 ATOM 1312 CZ ARG A 963 ATOM 1313 NH1 ARG A 963 ATOM 1314 NH2 ARG A 963 ATOM 1315 CA ARG A 963 ATOM 1316 CD ARG A 963 ATOM 1317 NE ARG A 963 ATOM 1318 CB ARG A 963 ATOM 1319 CD ARG A 963 ATOM 1310 CD ARG A 963 ATOM 1311 NE ARG A 963 ATOM 1312 CZ ARG A 963 ATOM 1312 CZ ARG A 963 ATOM 1313 NH1 ARG A 963 ATOM 1314 NH2 ARG A 963 ATOM 1315 CD ARG A 963 ATOM 1316 CD ARG A 963 ATOM 1317 NE ARG A 963 ATOM 1318 NH1 ARG A 963 ATOM 1319 CD ARG A 963 ATOM 1310 CD ARG A 963 ATOM 1311 NE ARG A 963 ATOM 1312 CZ ARG A 963 ATOM 1312 CZ ARG A 963 ATOM 1313 NH1 ARG A 963 ATOM 1314 NH2 ARG A 963 ATOM 1315 CD ARG A 963 ATOM 1316 NH2 ARG A 963 ATOM 1317 NE ARG A 963 ATOM 1318 NH1 ARG A 963 ATOM 1318 NH1 ARG A 963 ATOM 1320 CA ASN A 964 ATOM 1321 N ASN A 964 ATOM 1322 CA ASN A 964 ATOM 1323 C ASN A 964 ATOM 1324 O ASN A 964 ATOM 1325 CB ASN A 964 ATOM 1326 CG ASN A 964 ATOM 1327 OD1 ASN A 964 ATOM 1328 ND2 ASN A 964 ATOM 1329 ASN	ATOM	1296	CG							
ATOM 1299 CE1 HIS A 962 ATOM 1300 NE2 HIS A 962 ATOM 1300 NE2 HIS A 962 ATOM 1304 N ARG A 963 ATOM 1305 CA ARG A 963 ATOM 1306 C ARG A 963 ATOM 1307 O ARG A 963 ATOM 1308 CB ARG A 963 ATOM 1309 CG ARG A 963 ATOM 1309 CG ARG A 963 ATOM 1310 CD ARG A 963 ATOM 1310 CD ARG A 963 ATOM 1311 NE ARG A 963 ATOM 1312 CZ ARG A 963 ATOM 1312 CZ ARG A 963 ATOM 1313 NH1 ARG A 963 ATOM 1314 NH2 ARG A 963 ATOM 1315 CA ARG A 963 ATOM 1316 CD ARG A 963 ATOM 1317 NE ARG A 963 ATOM 1318 NH1 ARG A 963 ATOM 1319 CD ARG A 963 ATOM 1310 CD ARG A 963 ATOM 1311 NE ARG A 963 ATOM 1312 CZ ARG A 963 ATOM 1312 CZ ARG A 963 ATOM 1313 NH1 ARG A 963 ATOM 1314 NH2 ARG A 963 ATOM 1314 NH2 ARG A 963 ATOM 1321 N ASN A 964 ATOM 1322 CA ASN A 964 ATOM 1323 C ASN A 964 ATOM 1324 O ASN A 964 ATOM 1325 CB ASN A 964 ATOM 1326 CG ASN A 964 ATOM 1327 OD1 ASN A 964 ATOM 1328 ND2 ASN A 964 ATOM 1327 OD1 ASN A 964 ATOM 1328 ND2 ASN A 964 ATOM 1332 N LEU A 965	MOTA	1297								
ATOM 1300 NE2 HIS A 962 65.617 59.580 21.772 1.00 39.42 ATOM 1304 N ARG A 963 67.745 62.694 23.367 1.00 25.62 ATOM 1305 CA ARG A 963 67.008 63.920 22.979 1.00 25.62 ATOM 1306 C ARG A 963 65.777 63.852 22.084 1.00 25.62 ATOM 1307 O ARG A 963 65.762 64.331 20.941 1.00 25.62 ATOM 1308 CB ARG A 963 67.977 64.955 22.380 1.00 98.75 ATOM 1310 CD ARG A 963 69.318 65.061 23.081 1.00 98.75 ATOM 1310 NE ARG A 963 70.230 66.016 22.356 1.00 98.75 ATOM 1311 NE ARG A 963 70.718 65.501 21.087 1.00 98.75 ATOM 1312 CZ ARG A 963 70.212 65.832 19.911 1.00 98.75 ATOM 1313 NH1 ARG A 963 69.200 66.680 19.852 1.00 98.75 ATOM 1314 NH2 ARG A 963 70.717 65.321 18.801 1.00 98.75 ATOM 1321 N ASN A 964 64.738 63.276 22.661 1.00 47.91 ATOM 1322 CA ASN A 964 63.442 63.070 22.035 1.00 47.91 ATOM 1323 C ASN A 964 63.442 63.070 22.035 1.00 47.91 ATOM 1324 O ASN A 964 63.453 63.377 20.538 1.00 47.91 ATOM 1325 CB ASN A 964 63.453 63.377 20.538 1.00 47.91 ATOM 1326 CG ASN A 964 63.453 63.377 20.538 1.00 47.91 ATOM 1326 CG ASN A 964 63.453 63.377 20.538 1.00 84.77 ATOM 1328 ND2 ASN A 964 62.653 65.039 18.977 1.00 84.77 ATOM 1328 ND2 ASN A 964 62.653 65.039 18.977 1.00 84.77 ATOM 1328 ND2 ASN A 964 62.653 65.039 18.977 1.00 84.77 ATOM 1328 ND2 ASN A 964 62.653 65.039 18.977 1.00 84.77 ATOM 1332 N LEU A 965 63.366 61.249 23.509 1.00 96.70 ATOM 1332 N LEU A 965 63.366 61.249 23.509 1.00 96.70	ATOM	1298								
ATOM 1300 N ARG A 963 67.745 62.694 23.367 1.00 25.62 ATOM 1305 CA ARG A 963 67.008 63.920 22.979 1.00 25.62 ATOM 1306 C ARG A 963 65.777 63.852 22.084 1.00 25.62 ATOM 1307 O ARG A 963 65.762 64.331 20.941 1.00 25.62 ATOM 1308 CB ARG A 963 67.977 64.955 22.380 1.00 98.75 ATOM 1309 CG ARG A 963 69.318 65.061 23.081 1.00 98.75 ATOM 1310 CD ARG A 963 70.230 66.016 22.356 1.00 98.75 ATOM 1311 NE ARG A 963 70.718 65.501 21.087 1.00 98.75 ATOM 1312 CZ ARG A 963 70.212 65.832 19.911 1.00 98.75 ATOM 1313 NH1 ARG A 963 69.200 66.680 19.852 1.00 98.75 ATOM 1314 NH2 ARG A 963 70.717 65.321 18.801 1.00 98.75 ATOM 1314 NH2 ARG A 963 70.717 65.321 18.801 1.00 98.75 ATOM 1321 N ASN A 964 64.738 63.276 22.661 1.00 47.91 ATOM 1322 CA ASN A 964 63.442 63.070 22.035 1.00 47.91 ATOM 1323 C ASN A 964 63.235 61.618 22.246 1.00 47.91 ATOM 1324 O ASN A 964 63.442 63.070 22.035 1.00 47.91 ATOM 1325 CB ASN A 964 63.453 63.377 20.538 1.00 84.77 ATOM 1326 CG ASN A 964 62.453 64.459 20.153 1.00 84.77 ATOM 1328 ND2 ASN A 964 62.653 65.039 18.977 1.00 84.77 ATOM 1328 ND2 ASN A 964 62.653 65.039 18.977 1.00 84.77 ATOM 1328 ND2 ASN A 964 62.653 65.039 18.977 1.00 84.77 ATOM 1332 N LEU A 965 63.366 61.249 23.509 1.00 96.70	MOTA	1299								
ATOM 1305 CA ARG A 963 67.008 63.920 22.979 1.00 25.62 ATOM 1306 C ARG A 963 65.777 63.852 22.084 1.00 25.62 ATOM 1307 O ARG A 963 65.762 64.331 20.941 1.00 25.62 ATOM 1308 CB ARG A 963 67.977 64.955 22.380 1.00 98.75 ATOM 1310 CD ARG A 963 69.318 65.061 23.081 1.00 98.75 ATOM 1311 NE ARG A 963 70.230 66.016 22.356 1.00 98.75 ATOM 1311 NE ARG A 963 70.230 66.016 22.356 1.00 98.75 ATOM 1312 CZ ARG A 963 70.212 65.832 19.911 1.00 98.75 ATOM 1313 NH1 ARG A 963 69.200 66.680 19.852 1.00 98.75 ATOM 1314 NH2 ARG A 963 70.717 65.321 18.801 1.00 98.75 ATOM 1321 N ASN A 964 64.738 63.276 22.661 1.00 47.91 ATOM 1322 CA ASN A 964 63.442 63.070 22.035 1.00 47.91 ATOM 1323 C ASN A 964 63.235 61.618 22.246 1.00 47.91 ATOM 1324 O ASN A 964 63.235 61.618 22.246 1.00 47.91 ATOM 1325 CB ASN A 964 63.453 63.377 20.538 1.00 84.77 ATOM 1326 CG ASN A 964 62.453 64.459 20.153 1.00 84.77 ATOM 1327 OD1 ASN A 964 62.453 64.459 20.153 1.00 84.77 ATOM 1328 ND2 ASN A 964 62.653 65.039 18.977 1.00 84.77 ATOM 1328 ND2 ASN A 964 62.653 65.039 18.977 1.00 84.77 ATOM 1328 ND2 ASN A 964 62.653 65.039 18.977 1.00 84.77 ATOM 1328 ND2 ASN A 964 62.653 65.039 18.977 1.00 84.77 ATOM 1332 N LEU A 965 63.366 61.249 23.509 1.00 96.70	MOTA	1300	NE2							
ATOM 1306 C ARG A 963 65.777 63.852 22.084 1.00 25.62 ATOM 1307 O ARG A 963 65.762 64.331 20.941 1.00 25.62 ATOM 1308 CB ARG A 963 67.977 64.955 22.380 1.00 98.75 ATOM 1310 CD ARG A 963 70.230 66.016 22.356 1.00 98.75 ATOM 1311 NE ARG A 963 70.230 66.016 22.356 1.00 98.75 ATOM 1312 CZ ARG A 963 70.212 65.832 19.911 1.00 98.75 ATOM 1313 NH1 ARG A 963 70.212 65.832 19.911 1.00 98.75 ATOM 1314 NH2 ARG A 963 70.718 65.501 21.087 1.00 98.75 ATOM 1314 NH2 ARG A 963 70.717 65.321 18.801 1.00 98.75 ATOM 1321 N ASN A 964 64.738 63.276 22.661 1.00 47.91 ATOM 1322 CA ASN A 964 63.442 63.070 22.035 1.00 47.91 ATOM 1323 C ASN A 964 63.442 63.070 22.035 1.00 47.91 ATOM 1324 O ASN A 964 63.235 61.618 22.246 1.00 47.91 ATOM 1325 CB ASN A 964 63.453 63.377 20.538 1.00 84.77 ATOM 1326 CG ASN A 964 62.653 65.039 18.977 1.00 84.77 ATOM 1328 ND2 ASN A 964 62.653 65.039 18.977 1.00 84.77 ATOM 1328 ND2 ASN A 964 62.653 65.039 18.977 1.00 84.77 ATOM 1328 ND2 ASN A 964 62.653 65.039 18.977 1.00 84.77 ATOM 1332 N LEU A 965 63.366 61.249 23.509 1.00 96.70		1304	N							
ATOM 1306 C ARG A 963 ATOM 1307 O ARG A 963 ATOM 1308 CB ARG A 963 ATOM 1309 CG ARG A 963 ATOM 1310 CD ARG A 963 ATOM 1310 CD ARG A 963 ATOM 1311 NE ARG A 963 ATOM 1312 CZ ARG A 963 ATOM 1313 NH1 ARG A 963 ATOM 1314 NH2 ARG A 963 ATOM 1314 NH2 ARG A 963 ATOM 1321 N ASN A 964 ATOM 1322 CA ASN A 964 ATOM 1323 C ASN A 964 ATOM 1324 O ASN A 964 ATOM 1325 CB ASN A 964 ATOM 1326 CG ASN A 964 ATOM 1327 OD1 ASN A 964 ATOM 1328 ND2 ASN A 964 A	MOTA	1305								
ATOM 1308 CB ARG A 963 67.977 64.955 22.380 1.00 98.75 ATOM 1309 CG ARG A 963 69.318 65.061 23.081 1.00 98.75 ATOM 1310 CD ARG A 963 70.230 66.016 22.356 1.00 98.75 ATOM 1311 NE ARG A 963 70.718 65.501 21.087 1.00 98.75 ATOM 1312 CZ ARG A 963 70.212 65.832 19.911 1.00 98.75 ATOM 1313 NH1 ARG A 963 69.200 66.680 19.852 1.00 98.75 ATOM 1314 NH2 ARG A 963 70.717 65.321 18.801 1.00 98.75 ATOM 1321 N ASN A 964 64.738 63.276 22.661 1.00 47.91 ATOM 1322 CA ASN A 964 63.442 63.070 22.035 1.00 47.91 ATOM 1323 C ASN A 964 63.235 61.618 22.246 1.00 47.91 ATOM 1324 O ASN A 964 63.235 61.618 22.246 1.00 47.91 ATOM 1325 CB ASN A 964 63.453 63.377 20.538 1.00 84.77 ATOM 1326 CG ASN A 964 62.453 64.459 20.153 1.00 84.77 ATOM 1327 OD1 ASN A 964 62.453 64.459 20.153 1.00 84.77 ATOM 1328 ND2 ASN A 964 62.653 65.039 18.977 1.00 84.77 ATOM 1328 ND2 ASN A 964 62.653 65.039 18.977 1.00 84.77 ATOM 1328 N LEU A 965 63.366 61.249 23.509 1.00 96.70	ATOM		C							
ATOM 1309 CG ARG A 963	ATOM	1307	0							
ATOM 1310 CD ARG A 963 70.230 66.016 22.356 1.00 98.75 ATOM 1311 NE ARG A 963 70.718 65.501 21.087 1.00 98.75 ATOM 1312 CZ ARG A 963 70.212 65.832 19.911 1.00 98.75 ATOM 1313 NH1 ARG A 963 69.200 66.680 19.852 1.00 98.75 ATOM 1314 NH2 ARG A 963 70.717 65.321 18.801 1.00 98.75 ATOM 1321 N ASN A 964 64.738 63.276 22.661 1.00 47.91 ATOM 1322 CA ASN A 964 63.442 63.070 22.035 1.00 47.91 ATOM 1323 C ASN A 964 63.235 61.618 22.246 1.00 47.91 ATOM 1324 O ASN A 964 63.068 60.856 21.302 1.00 47.91 ATOM 1325 CB ASN A 964 63.453 63.377 20.538 1.00 84.77 ATOM 1326 CG ASN A 964 62.453 64.459 20.153 1.00 84.77 ATOM 1327 OD1 ASN A 964 62.453 64.459 20.153 1.00 84.77 ATOM 1328 ND2 ASN A 964 62.653 65.039 18.977 1.00 84.77 ATOM 1328 ND2 ASN A 964 63.366 61.249 23.509 1.00 96.70	MOTA									
ATOM 1311 NE ARG A 963 70.718 65.501 21.087 1.00 98.75 ATOM 1312 CZ ARG A 963 70.212 65.832 19.911 1.00 98.75 ATOM 1313 NH1 ARG A 963 69.200 66.680 19.852 1.00 98.75 ATOM 1314 NH2 ARG A 963 70.717 65.321 18.801 1.00 98.75 ATOM 1321 N ASN A 964 64.738 63.276 22.661 1.00 47.91 ATOM 1322 CA ASN A 964 63.442 63.070 22.035 1.00 47.91 ATOM 1323 C ASN A 964 63.235 61.618 22.246 1.00 47.91 ATOM 1324 O ASN A 964 63.068 60.856 21.302 1.00 47.91 ATOM 1325 CB ASN A 964 63.453 63.377 20.538 1.00 84.77 ATOM 1326 CG ASN A 964 62.453 64.459 20.153 1.00 84.77 ATOM 1327 OD1 ASN A 964 61.509 64.768 20.902 1.00 84.77 ATOM 1328 ND2 ASN A 964 62.653 65.039 18.977 1.00 84.77 ATOM 1328 ND2 ASN A 964 62.653 65.039 18.977 1.00 84.77 ATOM 1332 N LEU A 965 63.366 61.249 23.509 1.00 96.70	MOTA									
ATOM 1311 NE ARG A 963 ATOM 1312 CZ ARG A 963 ATOM 1313 NH1 ARG A 963 ATOM 1313 NH1 ARG A 963 ATOM 1314 NH2 ARG A 963 ATOM 1321 N ASN A 964 ATOM 1322 CA ASN A 964 ATOM 1323 C ASN A 964 ATOM 1324 O ASN A 964 ATOM 1325 CB ASN A 964 ATOM 1325 CB ASN A 964 ATOM 1326 CG ASN A 964 ATOM 1327 OD1 ASN A 964 ATOM 1328 ND2 ASN A 964 ATOM 1328 ND2 ASN A 964 ATOM 1328 ND2 ASN A 964 ATOM 1332 N LEU A 965 ATOM 1332 N LEU A 965 ATOM 1332 N LEU A 965 ATOM 1333 N LEU A 965 ATOM 1332 N LEU A 965	MOTA									
ATOM 1313 NH1 ARG A 963 69.200 66.680 19.852 1.00 98.75 ATOM 1314 NH2 ARG A 963 70.717 65.321 18.801 1.00 98.75 ATOM 1321 N ASN A 964 64.738 63.276 22.661 1.00 47.91 ATOM 1322 CA ASN A 964 63.442 63.070 22.035 1.00 47.91 ATOM 1323 C ASN A 964 63.235 61.618 22.246 1.00 47.91 ATOM 1324 O ASN A 964 63.068 60.856 21.302 1.00 47.91 ATOM 1325 CB ASN A 964 63.453 63.377 20.538 1.00 84.77 ATOM 1326 CG ASN A 964 62.453 64.459 20.153 1.00 84.77 ATOM 1327 OD1 ASN A 964 61.509 64.768 20.902 1.00 84.77 ATOM 1328 ND2 ASN A 964 62.653 65.039 18.977 1.00 84.77 ATOM 1332 N LEU A 965 63.366 61.249 23.509 1.00 96.70	MOTA									
ATOM 1314 NH2 ARG A 963 70.717 65.321 18.801 1.00 98.75 ATOM 1321 N ASN A 964 64.738 63.276 22.661 1.00 47.91 ATOM 1323 C ASN A 964 63.442 63.070 22.035 1.00 47.91 ATOM 1324 O ASN A 964 63.068 60.856 21.302 1.00 47.91 ATOM 1325 CB ASN A 964 63.453 63.377 20.538 1.00 47.91 ATOM 1326 CG ASN A 964 62.453 64.459 20.153 1.00 84.77 ATOM 1327 OD1 ASN A 964 61.509 64.768 20.902 1.00 84.77 ATOM 1328 ND2 ASN A 964 62.653 65.039 18.977 1.00 84.77 ATOM 1328 ND2 ASN A 964 62.653 65.039 18.977 1.00 84.77 ATOM 1332 N LEU A 965 63.366 61.249 23.509 1.00 96.70	MOTA									
ATOM 1321 N ASN A 964 64.738 63.276 22.661 1.00 47.91 ATOM 1322 CA ASN A 964 63.235 61.618 22.246 1.00 47.91 ATOM 1324 O ASN A 964 63.068 60.856 21.302 1.00 47.91 ATOM 1325 CB ASN A 964 63.453 63.377 20.538 1.00 84.77 ATOM 1326 CG ASN A 964 62.453 64.459 20.153 1.00 84.77 ATOM 1327 OD1 ASN A 964 61.509 64.768 20.902 1.00 84.77 ATOM 1328 ND2 ASN A 964 62.653 65.039 18.977 1.00 84.77 ATOM 1328 ND2 ASN A 964 62.653 65.039 18.977 1.00 84.77 ATOM 1332 N LEU A 965 63.366 61.249 23.509 1.00 96.70	ATOM	1313								
ATOM 1321 N ASN A 964 ATOM 1322 CA ASN A 964 ATOM 1323 C ASN A 964 ATOM 1324 O ASN A 964 ATOM 1325 CB ASN A 964 ATOM 1326 CG ASN A 964 ATOM 1326 CG ASN A 964 ATOM 1327 OD1 ASN A 964 ATOM 1327 ND1 ASN A 964 ATOM 1328 ND2 ASN A 964 ATOM 1328 ND2 ASN A 964 ATOM 1332 N LEU A 965	ATOM									
ATOM 1322 CA ASN A 964 ATOM 1323 C ASN A 964 ATOM 1324 O ASN A 964 ATOM 1325 CB ASN A 964 ATOM 1326 CG ASN A 964 ATOM 1327 OD1 ASN A 964 ATOM 1327 ND1 ASN A 964 ATOM 1328 ND2 ASN A 964 ATOM 1328 ND2 ASN A 964 ATOM 1332 N LEU A 965	ATOM									
ATOM 1323 C ASN A 964 ATOM 1324 O ASN A 964 ATOM 1325 CB ASN A 964 ATOM 1326 CG ASN A 964 ATOM 1327 OD1 ASN A 964 ATOM 1327 ND1 ASN A 964 ATOM 1328 ND2 ASN A 964 ATOM 1328 ND2 ASN A 964 ATOM 1332 N LEU A 965	MOTA									
ATOM 1324 O ASN A 964 ATOM 1325 CB ASN A 964 ATOM 1326 CG ASN A 964 ATOM 1327 OD1 ASN A 964 ATOM 1328 ND2 ASN A 964 ATOM 1328 ND2 ASN A 964 ATOM 1332 N LEU A 965	ATOM									
ATOM 1325 CB ASN A 964 ATOM 1326 CG ASN A 964 ATOM 1327 OD1 ASN A 964 ATOM 1328 ND2 ASN A 964 ATOM 1328 ND2 ASN A 964 ATOM 1332 N LEU A 965										
ATOM 1326 CG ASN A 964 ATOM 1327 OD1 ASN A 964 ATOM 1328 ND2 ASN A 964 ATOM 1328 ND2 ASN A 964 ATOM 1332 N LEU A 965 63.366 61.249 23.509 1.00 96.70	ATOM									
ATOM 1327 ODI ASN A 964 ATOM 1328 ND2 ASN A 964 62.653 65.039 18.977 1.00 84.77 ATOM 1332 N LEU A 965 63.366 61.249 23.509 1.00 96.70										
ATOM 1328 ND2 ASN A 304	MOTA						_			
ATOM 1332 N 150 A 967 7 1.00 96.70	ATOM									
ATOM 1333 CA LEU A 965 63.148, 59.89, 23.93, 1.00 90.70	MOTA									
	MOTA	1333	CA	LEU	A 965	63.148	, 23.83/	43.731	1.00	20.79

											,
MOTA	1334	C	LEU				61.836	60.220	24.659		96.70
ATOM	1335	0	LEU				61.784	60.527	25.833	1.00	
MOTA	1336	CB	LEU	A	965		64.352	59.382	24.805		17.46
MOTA	1337	CG	LEU	Ą	965		64.456	58.589	26.099		17.46
MOTA	1338	CD1	LEU				65.774	58.784	26.891		17.46
MOTA	1339	CD2	LEU				63.423	59.114	26.967		17.46
ATOM	1341	N	ALA	A	966		60.794	60.283	23.833	1.00	71.45
ATOM	1342	CA	ALA.	A	966		59.408	60.534	24.219	1.00	71.46
MOTA	1343	C	ALA	A	966		58.601	59.518	23.395	1.00	71.46
MOTA	1344	0	ALA.	A.	966		59.009	59.122	22.314		71.46
ATOM	1345	CB	ALA	A	966		59.005	61.933	23.885	1.00	62.29
ATOM	1347	N	ALA .	A	967		57.457	59.105	23.908	1.00	34.40
MOTA	1348	CA	ALA	Α	967		56.641	58.086	23.249	1.00	34.40
ATOM	1349	C	ALA.	A	967		56.585	58.066	21.726	1.00	34.40
MOTA	1350	0	ALA.	A	967		56.689	57.011	21.106	1.00	34.40
MOTA	1351	CB	ALA.	A	967		55.236	58.088	23.807	1.00	31.96
ATOM	1353	N	ARG .	A	968		56.462	59.208	21.094	1.00	9.59
ATOM	1354	CÁ	ARG .	A	968		56.309	59.113	19.678	1.00	9.59
ATOM	1355	С	ARG .				57.467	58.532	19.054	1.00	9.59
ATOM	1356	0	ARG .				57.335	58.106	17.930	1.00	9.59
MOTA	1357	CB	ARG				55.960	60.480	19.013	1.00	12.36
ATOM	1358	CG	ARG .	_			56.480	61.806	19.751	1.00	12.36
ATOM	1359	CD	ARG .				56.426	62.907	18.727		12.36
ATOM	1360	NE	ARG .				57.453	63.898	18.879		12.36
ATOM	1361	CZ	ARG .				57.608	64.568	19.994		12.36
	1361	NH1	ARG .				56.746	64.307	20.994		12.36
ATOM			ARG .				58.718	65.297	20.205		12.36
ATOM	1363	NH2	ASN .				58.611	58.550	19.735		56.22
ATOM	1370	N				•	59.878	58.043	19.179		56.22
ATOM	1371	CA	ASN .						19.730		56.22
ATOM	1372	C	ASN .				60.309	56.672			56.22
MOTA	1373	0	ASN .				61.472	56.327	19.673		99.68
ATOM	1374	CB	ASN .				61.011	59.053	19.444		
ATOM	1375	CG	ASN .				60.674	60.482	18.998		99.68
ATOM	1376	OD1	ASN .				60.213	61.303	19.787		99.68
ATOM	1377	ND2	ASN .				60.925	60.780	17.732		99.68
MOTA	1381	И	ILE .				59.351	55.935	20.288		10.68
ATOM	1382	CA	ILE .				59.507	54.683	20.853		10.68
MOTA	1383	C	ILE .	A	970		58.651	53.708	20.079		10.68
MOTA	1384	0			970		57.450	53.865	20.060		10.68
MOTA	1385	CB	ILE .	A	970		59.003	54.602	22.158	1.00	11.62
MOTA	1386	CGl	ILE.	A	970		59.808	55.496	23.084	1.00	11.62
ATOM	1387	CG2	ILE	A	970		59.191	53.056	22.620		11.62
ATOM	1388	CP1	ILE .	Α	970		61.263	55.730	22.600	1.00	11.62
MOTA	1390	N	LEU	Α	971		59.250	52.676	19.496	1.00	31.69
ATOM	1391	CA	LEU.	A	971		58.518	51.699	18.733	1.00	31.69
ATOM	1392	С	LEU				58.148	50.357	19.369	1.00	31.69
ATOM	1393	0	LEU				58.938	49.792	20.1≟8	1.00	31.69
ATOM	1394	CB	LEU				59.308	51.333	17.535	1.00	17.23
ATOM	1395	CG	LEU				59.702	52.411	16.632	1.00	17.23
ATOM	1396		LEU				60.981	51.973	16.005		17.23
ATOM	1397		LEU				58.629	52.642	15.646		17.23
	1397	N	VAL				56.953	49.832	19.017		20.91
ATOM			VAL				56.655	48.486	19.475		20.91
MOTA	1400	CA					56.862	47.491	18.389		20.91
ATOM	1401	C	VAL					47.491	17.523		20.91
ATOM	1402	0	VAL				56.022		19.953	1.00	9.13
ATOM	1403	CB	LAV				55.344	48.349		1.00	
MOTA	1404	CGl	VAL	A	972		55.362	47.291	21.081	1.00	J.11

MOTA	1405	CG2			972	54.797	49.894	20.467	1.00	
ATOM	1407	N			973	58.077	46.873	18.414	1.00	32.46
MOTA	1408	CA	GLY	A	973	58.514	45.851	17.466	1.00	32.46
ATOM	1409	C	GLY	A	973	58.012	44.434	17.814	1.00	32.46
MOTA	1410	0	GLY	Α	973	57.324	44.254	18.816	1.00	32.46
ATOM	1412	И	GLU	Ą	974	58.393	43.403	17.055	1.00	
ATOM	1413	CA	GLU	Α	974	57.846	42.109	17.351	1.00	
MOTA	1414	С	GLU	A	974	57.902	41.725	18.793	1.00	22.44
ATOM	1415	0	GLU	Α	974	58.809	42.041	19.510	1.00	22.44
ATOM	1416	CB	GLU	A	974	58.364	41.035	16.394	1.00	65.78
ATOM	1417	CG	GLU	Α	974	57.385	40.798	15.138	1.00	
ATOM	1418	CD	GLU	A	974	55.821	40.585	15.469	1.00	
ATOM	1419	0E1	GLU	A	974	55.398	40.463	16.656	1.00	65.78
MOTA	1420	OE2	GLU	A	974	55.005	40.540	14.512	1.00	
ATOM	1422	N	ASN	A	975	56.767	41.210	19.246	1.00	22.08
ATOM	1423	CA	ASN	A	975	56.540	40.717	20.627	1.00	22.08
ATOM	1424	С	ASN	Α	975	56.037	41.756	21.638	1.00	22.08
MOTA	1425	0	ASN	Α	975	55.968	41.482	22.844	1.00	22.08
ATOM	1426	CB			975	57.810	40.016	21.140	1.00	99.25
ATOM	1427	CG			975	58.074	38.679	20.438	1.00	99.25
ATOM	1428	OD1				58.836	37.859	20.929	1.00	99.25
MOTA	1429	ND2	ASN			57.446	38.465	19.292	1.00	99.25
ATOM	1433	N			976	55.656	42.932	21.134	1.00	30.29
ATOM	1434	CA			976	55.204	44.013	21.972	1.00	30.29
ATOM	1435	C			976	56.427	44.631	22.697		30.29
ATOM	1436	0	TYR			56.331	45.214	23.759	1.00	30.29
	1437	CB	TYR		-	54.157	43.463	22.893	1.00	71.60
ATOM	1438	CG	TYR			53.001	42.961	22.089	1.00	71.60
ATOM	1439	CD1	TYR			52.698	41.611	22.036	1.00	71.60
MOTA	1440	CD2	TYR			52.229	43.840	21.339	1.00	71.60
ATOM	1441	CEl	TYR			51.652	41.145	21.243	1.00	71.60
ATOM	1442	CE2			976	51.181	43.390	20.547	1.00	71.60
ATOM	1443	CZ	TYR			50.895	42.043	20.491	1.00	71.60
ATOM	1444	OH	TYR			49.905	41.588	19.655	1.00	71.60
ATOM	1447	N	VAL			57.569	44.513	22.047	1.00	35.58
ATOM	1448	CA	VAL			58.837	44.988	22.597	1.00	35.58
ATOM	1449	C			977	59.247	46.367	22.101	1.00	35.58
ATOM	1450	0	VAL			59.495	46.616	20.903	1.00	35.58
ATOM	1451	CB	VAL.			59.994	43.975	22.316	1.00	54.29
ATOM	1452		VAL			61.110	44.134	23.340	1.00	54.29
ATOM	1453		VAL			59.418	42.533	22.339		54.29
ATOM	1455	N.	ALA			59.355	47.233	23.082		36.83
ATOM		· CA	ALA			59.628	48.594	22.857		36.83
ATOM	1457	C	ALA			61.086	49.005	22.550		36.83
ATOM	1458	0	ALA			61.937	48.823	23.380		36.83
MOTA	1459	CB	ALA			59.142	49.265	24.019		27.14
ATOM	1461	N	LYS			61.368	49.570	21.374		42.93
ATOM	1462	CA	LYS			62.704	50.023	21.063		42.93
ATOM	1463	C	LYS			63.002		20.907		42.93
ATOM	1464	0	LYS			62.175	51.530 52.352	20.414		42.93
ATOM	1465	CB	LYS							
ATOM	1465	CG	LYS			63.190	49.433 48.708	19.798		32.23
		CD				62.273		19.039		32.23
ATOM	1467		LYS			62.556	47.230	19.416		32.23
ATOM	1468	CE	LYS			63.156	46.356	18.275		32.23
MOTA	1469	NZ N				63.744	45.144	18.883		32.23
ATOM	1474	N	ILE			64.233	51.887	21.275	1.00	2.00
ATOM	1475	CA	ILE	A	ラさい	64.639	53.265	21.099	1.00	2.00

				_	000	65.044	53.446	19.649	1.00 2.00
MOTA	1476	C	ILE A				52.445	18.913	1.00 2.00
ATOM	1477	0	ILE A			65.191			1.00 22.25
MOTA	1478	CB	ILE A			65.717	53.649	22.013	
ATOM	1479	CG1	ILE A			65.318	53.372	23.463	1.00 22.25
MOTA	1480	CG2	ILE .			65.839	55.073	21.885	1.00 22.25
MOTA	1481	CD1	ILE 2	A.	980	66.358	53.040	24.467	1.00 22.25
ATOM	1483	N	ALA	A	981	65.129	54.715	19.235	1.00 37.10
ATOM	1484	CA	ALA Z	Ą	981	65.489	55.166	17.870	1.00 37.10
ATOM	1485	С	ALA	A.	981	65.426	56.684	17.652	1.00 37.10
ATOM	1486	0	ALA			64.905	57.454	18.494	1.00 37.10
	1487	CB	ALA			64.634	54.620	16.964	1.00 12.10
ATOM		И			982	65.933	57.120	16.508	1.00 81.89
MOTA	1489				982	65.907	58.525	16.186	1.00 81.89
ATOM	1490	CA				66.821	59.190	17.201	1.00 81.89
ATOM	1491	C.	ASP .					17.342	1.00 81.89
MOTA	1492	0			982	66.877	60.416		
MOTA	1493	CB			982	64.465	59.029	16.284	
MOTA	1494	CG			982	64.352	60.357	16.999	1.00 22.36
ATOM	1495	OD1	ASP .	A	982	64.517	61.390	16.281	1.00 22.36
ATOM	1496	OD2	ASP .	A.	982	64.112	60.353	18.252	1.00 22.36
ATOM	1498	N	PHE .	A	983	67.540	58.353	17.922	1.00 90.03
ATOM	1499	CA		A	983	68.502	58.819	18.897	1.00 90.03
	1500	C	PHE			69.521	59.638	18.083	1.00 90.03
ATOM		0	PHE			69.436	59.728	16.844	1.00 90.03
MOTA	1501		PHE			69.205	57.599	19.489	1.00100.00
ATOM	1502	CB				69.417	56.489	18.475	1.00100.00
MOTA	1503	CG	PHE					17.502	1.00100.00
ATOM	1504	CD1			983	70.419	56.593		1.00100.00
MOTA	1505	CD2			983	68.567	55.387	18.435	
MOTA	1506	CE1	PHE	A	983	70.557	55.624	16.513	1.00100.00
MOTA	1507	CE2	PHE	Α	983	68.704	54.418	17.449	1.00100.00
ATOM	1508	CZ	PHE	Α	983	69.698	54.537	16.488	1.00100.00
MOTA	1510	N	GLY	A	984	70.493	60.226	18.770	1.00 59.78
ATOM	1511	CA	GLY	A	984	71.533	60.957	18.060	1.00 59.78
ATOM	1512	C	GLY			72.821	60.159	18.193	1.00 59.78
	1513	0	GLY			72.900	59.221	19.019	1.00 59.78
ATOM		N	LEU			73.816	60.488	17.379	1.00 99.32
ATOM	1515		LEU			75.094	59.791	17.454	1.00 99.32
MOTA	1516	CA				75.886	60.603	18.440	1.00 99.32
ATOM	1517	C	LEU				60.348	18.669	1.00 99.32
MOTA	1518	0	LEU			77.068		16.106	1.00100.00
MOTA	1519	CB	LEU			75.824	59.786		1.00100.00
ATOM	1520	CG	LEU			75.453	58.753	15.036	
MOTA	1521	CD1	LEU	A	985	74.707	57.590	15.651	1.00100.00
MOTA	1522	CD2	LEU	Α	985	74.604	59.428	13.971	1.00100,00
MOTA	1524	N	SER	A	985	75.211	61.587	19.020	1.00 37.75
ATOM	1525	CA	SER	Α	986	75.828	62.476	19.989	1.00 37.75
ATOM	1526	C	SER			76.413	61.806	21.210	1.00 37.75
MOTA	1527	0	SER			75.708	61.541	22.143	1.00 37.75
		CB	SER			74.830	63.525	20.445	1.00 99.91
ATOM	1528		SER			75.198	64.776	19.917	1.00 99.91
ATOM	1529	OG					61.513	21.216	1.00 63.13
MOTA	1532	N	ARG			77.710		22.407	1.00 63.13
MOTA	1533	CA	ARG			78.285	60.910		1.00 63.13
MOTA	1534	C	ARG			79.243	61.904	22.979	1.00 63.13
MOTA	1535	0			987	80.058	62.476	22.270	
ATOM	1536	CB	ARG	A	987	78.964	59.567	22.132	1.00 87.40
ATOM	1537	CG	ARG	A	987	79.870	59.529	20.947	1.00 87.40
ATOM	1538	CD			987	81.110	58.722	21.273	1.00 87.40
MOTA	1539	NE			987	.80.807	57.654	22.217	1.00 87.40
		CZ			987	80.782	56.366	21.898	1.00 87.40
MOTA	1540	-4	حدرك		J .				

ATOM	1541	NH1	ARG	A	987	81.042	55.981	20.658	1.00	
ATOM	1542	NH2	ARG	Ą	987	80.506	55.463	22.824	1.00	87.40
ATOM	1549	N	GLY	Α	886	79.090	62.096	24.282	1.00	28.62
ATOM	1550	CA	\mathtt{GLY}	A	988	79.833	63.044	25.072	1.00	28.62
ATOM	1551	C	GLY	A	988	79.268	63.073	26.476	1.00	28.62
ATOM	1552	0	GLY	A	988	78.558	62.156	25.816	1.00	28.62
ATOM	1554	N	GLN	A	989	79.612	64.094	27.270	1.00	22.70
ATOM	1555	CA	GLN			79.214	64.322	28.682	1.00	22.70
ATOM	1556	C	GLN			78.188	65.518	28.775	1.00	22.70
ATOM	1557	Ō	GLN			77.534	65.676	29.785	1.00	22.70
ATOM	1558	CB	GLN			80.449	64.647	29.536	1.00	98.73
ATOM	1559	CG	GLN			80.240	64.572	31.049	1.00	98.73
ATOM	1560	CD	GLN			81.127	65.539	31.844	1.00	98.73
ATOM	1561	OE1	GLN			81.240	66.712	31.510	1.00	98.73
ATOM	1562	NE2	GLN			81.746	65.043	32.901	1.00	98.73
	1566	N	GLU			78.055	66.323	27.724	1.00	47.13
ATOM		CA	GLU			77.173	67.478	27.725	1.00	47.13
MOTA	1567		GLU			77.106	67.842	26.251	1.00	47.13
ATOM	1568	C	GLU			78.116	67.765	25.565	1.00	47.13
MOTA	1569	0	GLU			77.830	68.612	28.534	1.00	77.23
MOTA	1570	CB	GLU			76.950	69.834	28.830	1.00	77.23
MOTA	1571	CG				76.930	70.244	30.322	1.00	77.23
MOTA	1572	CD	GLU			77.431	69.468	31.165	1.00	77.23
ATOM	1573	OE1	GLU				71.337	30.658	1.00	77.23
ATOM	1574	OE2	GLU			76.406	68.228	25.727	1.00	24.20
MOTA	1576	N	VAL			75.946	68.569	24.274	1.00	24.20
ATOM	1577	CA	VAL			75.831	69.989	24.073	1.00	24.20
ATOM	1578	C	VAL			75.272	70.682	25.017	1.00	24.20
MOTA	1579	0	VAL			75.089	67.572	23.527	1.00	55.15
MOTA	1580	CB	VAL			74.897		23.327	1.00	55.15
MOTA	1581	CG1				75.197		24.148	1.00	55.15
MOTA	1582	CG2	VAL			75.015	66.252 70.398	22.840	1.00	53.40
MOTA	1584	N	TYR			75.056		22.545	1.00	53.40
MOTA	1585	CA	TYR			74.514	71.693	21.140	1.00	53.40
MOTA	1586	C	TYR			73.954	71.659	20.177	1.00	53.40
ATOM	1587	0	TYR			74.678	71.455	22.658	1.00	83.17
MOTA	1588	CB	TYR			75.594	72.774	22.018	1.00	83.17
ATOM	1589	CG	TYR			75.167	74.067	22.688	1.00	83.17
ATOM	1590	CD1	TYR			74.337	74.950		1.00	83.17
MOTA	1591	CD2			992	75.452	74.316	20.694		83.17
ATOM	1592	CE1				73.796	76.025	22.047		83.17
MOTA	1593	CE2				74.919	75.380	20.053		83.17
MOTA	1594	СZ			992	74.090	76.230	20.726		83.17
MOTA	1595	OH			992	73.569	77.297	20.053		100.00
MOTA	1598	N			993	72.645	71.821	21.015		
MOTA	1599	CA			993	72.047	71.808	19.695		100.00
MOTA	1600	С			993	70.897	72.813	19.594		100.00
MOTA	1601	0	VAL	A	993	69.736	72.514	19.912		100.00
MOTA	1602	CB	VAL	Ą	993	71.604	70.371	19.304		80.14
MOTA	1603	CGI			993	71.422	69.529	20.538		80.14
MOTA	1604	CG2	VAL	A	993	70.338	70.409	18.450		80.14
ATOM	1606	N			994	71.260	74.022	19.155		83.98
ATOM	1607	CA			994	70.329	75.125	18.980		83.98
MOTA	1608	С			994	69.729	74.959	17.615		83.98
MOTA	1609	0			994	70.421	74.538	16.688		83.98
ATOM	1610	CB			994	71.076	76.455	19.070		100.00
MOTA	1611	CG			994	70.350	77.670	18.498		100.00
MOTA	1612	CD	LYS	A	994	71.347	78.789	18.226	1,.00	100.00

ATOM	1613	CE	LYS	A 994	70.694	80.150	18.153	1.001	100.00
ATOM	1614	NΖ	LYS	A 994	71.425	81.159	18.962	1.003	100.00
ATOM	1619	N	LYS	A 995	68.446	75.287	17.488	1.00	66.77
MOTA	1620	CA	LYS	A 995	67.741	75.142	16.210	1.00	66.77
MOTA	1621	C	LYS	A.995	68.023	73.749	15.591	1.00	66.77
ATOM	1622	0	LYS	A 995	67.910	73.583	14.358		66.77
ATOM	1623	CB	LYS	A 995	68.167	76.265	15.244	1.001	.00.00
ATOM	1624	TXO		A 995	68.354	72.815	16.355	1.001	.00.00
ATOM	1626	N	PRO	A1001	61.032	69.682	22.189	1.00	23.57
ATOM	1627	CA	PRO	A1001	59.754	69.092	22.679	1.00	23.57
ATOM	1628	С	PRO	A1001	59.681	69.765	24.004	1.00	23.57
MOTA	1629	0	PRO	A1001	59.857	69.162	25.026		23.57
ATOM	1630	CB	PRO	A1001	59.964	67.607	22.863	1.00	82.24
MOTA	1631	CG	PRO	A1001	61.529	67.446	22.804	1.00	82.24
MOTA	1632	CD	PRO	A1001	62.179	68.812	22.494	1.00	82.24
MOTA	1635	N	VAL	Al002	59.429	71.067	23.965	1.00	14.96
ATOM	1636	CA	VAL	A1002	59.401	71.905	25.163	1.00	14.96
MOTA	1637	С	VAL	A1002	58.731	71.247	26.277	1.00	14.96
ATOM	1638	0	VAL	A1002	58.930	71.607	27.409	1.00	14.96
MOTA	1639	CB	VAL	A1002	58.755	73.268	24.833	1.00	66.63
MOTA	1640	CG1	VAL	A1002	57.691	73.065	23.764	1.00	66.63
MOTA	1641	CG2	VAL	A1002	58.212	73.946	26.088	1.00	66.63
ATOM	1643	N	ARG	A1003	57.913	70.256	25.990	1.00	36.10
ATOM	1644	CA	ARG	A1003	57.188	69.580	27.054	1.00	36.10
ATOM	1645	С	ARG	A1003	57.957	68.409	27.649	1.00	36.10
ATOM	1646	0	ARG	A1003	57.762	68.012	28.773	1.00	36.10
ATOM	1647	CB	ARG	A1003	55.829	69.195	26.507	1.00	97.10
ATOM	1648	CG	ARG	A1003	55.381	70.237	25.495	1.00	97.10
ATOM	1649	CD	ARG	A1003	53.974	70.007	25.036	1.00	97.10
ATOM	1650	NE	ARG	A1003	53.022	70.432	26.045	1.00	97.10
ATOM	1651	CZ	ARG	A1003	51.949	71.153	25.782	1.00	97.10
ATOM	1652	NH1	ARG	A1003	51.699	71.527	24.544	1.00	97.10
ATOM	1653	NH2	ARG	A1003	51.136	71.493	26.759	1.00	97.10
ATOM	1660	N	TRP	A1004	58.902	67.934	26.865	1.00	31.39
ATOM	1661	CA	TRP	A1004	59.799	66.858	27.231	1.00	31.39
ATOM	1662	С	TRP	A1004	61.031	67.342	27.941	1.00	31.39
ATOM	1663	0	TRP	A1004	61.431	66.841	28.992	1.00	31.39
ATOM	1664	CB	TRP	A1004	60.117	66.113	25.981	1.00	37.57
ATOM	1665	CG	TRP	A1004	59.058	65.128	25.860	1.00	37.57
ATOM	1666	CD1	TRP	A1004	59.055	63.870	26.415	1.00	37.57
MOTA	1667	CD2	TRP	A1004	57.758	65.324	25.323	1.00	37.57
ATOM	1668	NE1		A1004	57.832	63.290	26.253	1.00	37.57
MOTA	1669	ĊE2	TRP	A1004	57.011	64.149	25.594	1.00	37.57
MOTA	1670	CE3	TRP	A1004	57.142	66.370	24.648	1.00	37.57
ATOM	1671	CZ2	TRP	A1004	55.683	63.991	25.214	1.00	37.57
ATOM	1672	CZ3		A1004	55.789	66.223	24.252	1.00	37.57
ATOM	1673	CH2		A1004	55.087	65.041	24.541	1.00	37.57
ATOM	1676	N	MET	A1005	61.556	68.426	27.391	1.00	10.72
ATOM	1677	CA		A1005	62.723	69.067	27.879	1.00	10.72
ATOM	1678	C		A1005	62.709	69.405	29.340	1.00	10.72
ATOM	1679	0		A1005	61.690	69.822	29.947	1.00	10.72
ATOM	1680	CB		A1005	62.983	70.254	27.003	1.00	63.30
MOTA	1681	CG		A1005	63.299	69.783	25.632		63.30
ATOM	1682	SD		A1005	63.194	71.078	24.467		63.30
ATOM	1683	CE		A1005	64.494	72.111	25.002	1.00	63.30
ATOM	1685	N		A1006	63.873	59.180	29.939		13.71
ATOM	1686	CA		A1006	64.092	69.541	31.343		13.71
ATOM	2000	-41				- ·			

ATOM	1687	С	ALA	A1006	64.634	71.015	31.321	1.00 13.71
MOTA	1688	0	ALA	A1006	64.885	71.575	30.254	1.00 13.71
MOTA	1689	CB	ALA	A1006	65.114	68.618	31.976	1.00 44.23
MOTA	1691	N	ILE	A1007	64.762	71.597	32.515	1.00 21.54
ATOM	1692	CA	ILE	A1007	65.278	72.951	32.738	1.00 21.54
ATOM	1693	С	ILE	A1007	66.586	73.324	31.943	1.00 21.54
ATOM	1694	0	ILE	A1007	66.528	73.791	30.817	1.00 21.54
ATOM	1695	CB	ILE	A1007	65.482	73.137	34.300	1.00 20.90
ATOM	1696	CG1	ILE	A1007	66.672	72.188	34.830	1.00 20.90
ATOM	1697	CG2	ILE	A1007	64.088	72.800	35.034	1.00 20.90
ATOM	1698	CD1	ILE	A1007	67.395	72.474	36.237	1.00 20.90
ATOM	1700	N	GLU	A1008	67.752	73.082	32.510	1.00 10.72
ATOM	1701	CA	GLU	A1008	69.028	73.410	31.892	1.00 10.72
ATOM	1702	С	GLU	A1008	69.066	73.404	30.369	1.00 10.72
ATOM	1703	0		A1008	70.144	73.771	29.757	1.00 10.72
MOTA	1704	СВ		A1008	70.098	72.429	32.417	1.00 39.30
ATOM	1705	CG		A1008	69.942	70.977	31.916	1.00 39.30
ATOM	1706	CD		A1008	69.159	70.091	32.896	1.00 39.30
ATOM	1707			A1008	68.082	70.549	33.382	1.00 39.30
ATOM	1708			A1008	69.634	68.944	33.178	1.00 39.30
ATOM	1710	N		A1009	67.976	72.880	29.764	1.00 31.45
	1711	CA		A1009	67.798	72.791	28.314	1.00 31.45
ATOM	1712	C		A1009	66.826	73.844	27.779	1.00 31.45
ATOM				A1009	67.007	74.396	26.685	1.00 31.45
ATOM	1713	O		A1009	67.286	71.410	27.930	1.00100.00
ATOM	1714	CB				70.402	28.500	1.00100.00
MOTA	1715	OG		A1009	68.088		28.485	1.00 75.06
MOTA	1718	N		A1010	65.745	74.095		1.00 75.06
ATOM	1719	CA		A1010	64.852	75.103	27.977	1.00 75.06
MOTA	1720	C		A1010	65.758	76.342	27.926	1.00 75.06
ATOM	1721	0		A1010	65.737	77.146	26.989	
MOTA	1722	CB		A1010	63.675	75.238	28.938	1.00 62.28
MOTA	1723	CG		A1010	62.685	74.078	28.725	1.00 62.28
ATOM	1724			A1010	61.421	74.394	29.511	1.00 62.28
ATOM	1725			A1010	62.379	73.854	27.229	1.00 62.28
MOTA	1727	N		A1011	66.597	76.401	28.951	1.00 36.75
MCTA	1728	CA		A1011	67.611	77.389	29.207	1.00 36.75
MOTA	1729	C	ASN	A1011	68.761	77.280	28.189	1.00 36.75
MOTA	1730	0	ASN	A1011	68.696	77.728	27.006	1.00 36.75
ATOM	1731	CB	ASN	A1011	68.174	77.122	30.588	1.00 53.79
MOTA	1732	CG	ASN	A1011	67.148	77.215	31.633	1.00 53.79
ATOM	1733	OD1	ASN	A1011	66,008	77.430	31.335	1.00 53.79
ATOM	1734	ND2	ASN	A1011	67.541	77.071	32.879	1.00 53.79
MOTA	1738	N '	TYR	A1012	69.810	76.638	28.685	1.00 25.53
MOTA	1739	CA	TYR	A1012	71.016	76.422	27.940	1.00 25.53
ATOM	1740	C	TYR	A1012	70.747	75.476	26.776	1.00 25.53
MOTA	1741	0	TYR	A1012	71.392	75.570	25.756	1.00 25.53
ATOM	1742	CB		A1012	72.118	75.898	28.872	1.00 38.16
ATOM	1743	CG		A1012	71.934	76.312	30.315	1.00 38.16
ATOM	1744			A1012	72.332	75.491	31.341	1.00 38.16
ATOM	1745			A1012	71.301	77.512	30.645	1.00 38.16
ATOM	1746			A1012	72.105	75.841	32.642	1.00 38.16
	1747	CE2		A1012	71.072	77.863	31.943	1.00 38.16
ATOM	1748	CZ		A1012	71.473	77.028	32.927	1.00 38.16
ATOM				A1012 A1012	71.240	77.363	34.217	1.00 38.16
ATOM	1749	OH			69.812	74.566	26.863	1.00 71.42
ATOM	1752	N		A1013	69.612	73.752	25.672	1.00 71.42
ATOM	1753	CA		A1013			25.398	1.00 71.42
ATOM	.1754	С	ンドド	A1013	70.875	72.864	٥٥.٥٥٥	1.00 /1.42

ATOM 1755 O SER A1013 71.360 72.693 24.272 1.00 71.42
ATOM 1757 OG SER A1013 69.331 74.696 24.502 1.00 25.42
ATOM 1750 N VAL A1014 71.363 72.310 26.482 1.00 65.71
ATOM 1760 N VAL A1014 71.363 72.310 26.482 1.00 65.71
ATOM 1761 CA VAL A1014 71.2507 71.423 26.395 1.00 66.71
ATOM 1762 C VAL A1014 71.935 70.263 27.994 1.00 66.71
ATOM 1763 O VAL A1014 71.255 70.263 27.994 1.00 66.71
ATOM 1764 CB VAL A1014 71.255 70.263 27.994 1.00 66.71
ATOM 1765 CGI VAL A1014 71.255 70.263 27.994 1.00 66.71
ATOM 1766 CGZ VAL A1014 71.257 71.888 27.263 1.00 53.96
ATOM 1766 CGZ VAL A1014 74.220 73.271 26.795 1.00 53.96
ATOM 1766 CGZ VAL A1014 74.220 73.271 26.795 1.00 53.96
ATOM 1767 C TYR A1015 72.067 69.104 26.273 1.00 65.68
ATOM 1769 CA TYR A1015 72.067 69.104 26.273 1.00 65.68
ATOM 1770 C TYR A1015 72.067 69.104 26.273 1.00 65.68
ATOM 1771 O TYR A1015 73.635 66.702 26.646 1.00 65.68
ATOM 1772 CB TYR A1015 70.656 67.214 25.663 1.00100.00
ATOM 1773 CG TYR A1015 69.758 68.179 24.939 1.00100.00
ATOM 1775 CD2 TYR A1015 69.758 68.179 24.939 1.00100.00
ATOM 1776 CG1 TYR A1015 69.758 68.505 23.037 1.00100.00
ATOM 1776 CG2 TYR A1015 67.644 69.364 24.740 1.00100.00
ATOM 1776 CG2 TYR A1015 67.644 69.364 24.740 1.00100.00
ATOM 1776 CG TYR A1015 67.644 69.364 24.740 1.00100.00
ATOM 1779 CH TYR A1015 67.644 69.364 24.740 1.00100.00
ATOM 1779 CH TYR A1015 67.064 69.910 23.546 1.00100.00
ATOM 1780 CA THR A1016 72.263 66.269 28.363 1.00 58.88
ATOM 1780 CA THR A1016 72.263 66.269 29.303 1.00 58.88
ATOM 1780 CA THR A1016 72.263 66.269 29.303 1.00 58.88
ATOM 1780 CA THR A1016 72.263 66.269 29.303 1.00 58.88
ATOM 1780 C TYR A1015 68.078 69.901 23.546 1.0010.00
ATOM 1781 C THR A1016 72.263 66.269 29.303 1.00 58.88
ATOM 1780 C TYR A1015 68.078 69.901 23.546 1.0010.00
ATOM 1780 C TYR A1015 68.078 69.901 23.546 1.0010.00
ATOM 1780 C TYR A1015 68.078 69.901 23.546 1.0010.00
ATOM 1780 C TYR A1015 68.078 69.901 23.546 1.0010.00
ATOM 1780 C TYR A1015 68.078 69.901 23.540 1.0010.00
ATOM 1780 C TYR A1015 68.078 69.901 23.540 1.0010.00
ATOM 1780 C TYR A1015 68.

MOTA	1893	CD1	LEU	A1027	57.496	57.117	27.007	1.00	37.14
MOTA	1894	CD2		A1027	59.417	57.890	25.930	1.00	37.14
ATOM	1896	N		A1028	57.746	58.125	30.978	1.00	8.77
ATOM	1897	CA		A1028	57.188	57.363	32.009	1.00	8.77
ATOM	1898	C		A1028	55.743	57.749	32.088	1.00	8.77
ATOM	1899	Ō		A1028	54.947	56.870	31.744	1.00	8.77
ATOM	1900	СВ		A1028	57.875	57.508	33.363	1.00	48.45
ATOM	1901	CG		A1028	57.252	56.440	34.294	1.00	48.45
ATOM	1902	CD1		A1028	56.823	55.185	33.534	1.00	48.45
ATOM	1903	CD2	LEU	A1028	58.220	56.043	35.333	1.00	48.45
ATOM	1905	N	TRP	A1029	55.442	59.029	32.483	1.00	30.07
ATOM	1906	CA		A1029	54.084	59.703	32.660	1.00	30.07
ATOM	1907	С	TRP	A1029	53.253	59.613	31.429	1.00	30.07
ATOM	1908	0	TRP	A1029	52.118	59.261	31.397	1.00	30.07
MOTA	1909	CB	TRP	A1029	54.227	61.222	32.983	1.00	2.92
ATOM	1910	CG	TRP	A1029	52.932	62.000	33.312	1.00	2.92
ATOM	1911	CD1		A1029	52.349	62.276	34.582	1.00	2.92
ATOM	1912	CD2		A1029	51.964	62.434	32.334	1.00	2.92
ATOM	1913	NE1	TRP	A1029	51.050	62.846	34.369	1.00	2.92
ATOM	1914	CE2		A1029	50.827	62.919	33.011	1.00	2.92
ATOM	1915	CE3	TRP	A1029	51.955	62.444	30.937	1.00	2.92
ATOM	1916	CZ2	TRP	A1029	49.767	63.362	32.342	1.00	2.92
ATOM	1917	CZ3		A1029	50.836	62.910	30.283	1.00	2.92
ATOM	1918	CH2		A1029	49.791	63.345	30.971	1.00	2.92
ATOM	1921	N		A1030	53.881	60.008	30.382	1.00	26.20
ATOM	1922	CA		A1030	53.292	59.957	29.076	1.00	26.20
ATOM	1923	C		A1030	52.824	58.589	28.725	1.00	26.20
ATOM	1924	0		A1030	52.344	58.417	27.638	1.00	26.20
ATOM	1925	CB		A1030	54.358	60.378	28.077	1.00	24.00
ATOM	1926	CG		A1030	53.879	60.996	26.869	1.00	24.00
ATOM	1927	CD		A1030	54.860	60.718	25.857	1.00	24.00
ATOM	1928	OE1		A1030	55.885	60.279	26.378	1.00	24.00
ATOM	1929	OE2		A1030	54.661	60.907	24.633	1.00	24.00
ATOM	1931	N		A1031	52.969	57.631	29.631	1.00	14.69
ATOM	1932	CA.		A1031	52.633	56.216	29.376	1.00	14.69
ATOM	1933	C		A1031	51.704	55.738	30.426	1.00	14.69
ATOM	1934	0		A1031	51.033	54.761	30.203	1.00	14.69
ATOM	1935	CB	ILE	A1031	53.923	55.272	29.416	1.00	33.44
	1936	CG1	ILE		54.294	54.757	28.021	1.00	33.44
ATOM ATOM	1937	CG2		A1031	53.671	53.993	30.253	1.00	33.44
	1937	_		A1031	55.762	54.225	27.948	1.00	33.44
ATOM ATOM	1940	Ŋ		A1032	51.726	56.285	31.621		14.19
MOTA	1941	CA		A1032	50.676	55.868	32.559		14.19
ATOM	1942	C		A1032	49.327	56.496	32.011		14.19
ATOM	1942	0		A1032	48.282	55.823	31.882		14.19
ATOM	1944	CB		A1032	50.924	56.349	33.944		41.51
	1945	CG1		A1032	49.666	56.640	34.596		41.51
ATOM	1945	CG2		A1032	51.581	55.290	34.704		41.51
MOTA				A1032	49.395	57.755	31.625		31.81
ATOM	1948 1949	N CA		A1033	48.320	58.505	31.065		31.81
MOTA				A1033	47.658	57.730	29.910		31.81
ATOM	1950	C 0		A1033	46.551	58.079	29.445		31.81
ATOM	1951				48.895	59.828	30.546		68.54
ATOM	1952	CB		A1033	49.757	59.623	29.445		68.54
ATOM	1953	OG		A1033	48.316	56.686	29.442	1.00	
ATOM	1956	N		A1034	48.310	55.984	28.298	1.00	
ATOM	1957	CA		A1034		56.833		1.00	2.00
MOTA	1958	С	HEU	A1034	47.645	٠ د ده . ب	20.00		

ATOM	1959	0		A1034	46.584	56.955	26.409	1.00 2.00
MOTA	1960	CB	LEU	A1034 .	46.422	55.343	28.654	1.00 31.43
MOTA	1961	CG	LEU	A1034	46.478	53.883	29.207	1.00 31.43
ATOM	1962	CD1		A1034	45.072	53.333	29.484	1.00 31.43
ATOM	1963	CD2		A1034	47.244	52.988	28.207	1.00 31.43
ATOM	1965	N		A1035	48.706	57.372	26.438	1.00 4.53
ATOM	1966	CA	GLY	A1035	48.437	58.149	25.224	1.00 4.53
ATOM	1967	C	GLY	A1035	48.241	59.685	25.565	1.00 4.53
ATOM	1968	0	GLY	A1035	47.964	60.498	24.649	1.00 4.53
ATOM	1970	N	GLY	A1036	48.509	60.071	26.820	1.00 18.31
MOTA	1971	CA	\mathtt{GLY}	`A1036	48.281	61.470	27.160	1.00 18.31
ATOM	1972	C	GLY	A1036	49.211	62.717	27.185	1.00 18.31
ATOM	1973	0	GLY	A1036	49.988	62.881	28.181	1.00 18.31
ATOM	1975	N	THR	A1037	49.027	63.591	26.164	1.00 48.85
MOTA	1976	CA	THR	A1037	49.733	64.890	25.939	1.00 48.85
ATOM	1977	C	THR	A1037	50.225	65.522	27.265	1.00 48.85
ATOM	1978	0	THR	A1037	49.431	65.933	28.077	1.00 48.85
ATOM	1979	СВ	THR	A1037	48.780	65.886	25.216	1.00 25.15
ATOM	1980	OG1		A1037	48.988	65.904	23.772	1.00 25.15
ATOM	1981	CG2		A1037	48.993	67.215	25.789	1.00 25.15
ATOM	1984	N		A1038	51.538	65.697	27.456	1.00 42.23
ATOM	1985	CA		A1038	51.796	66.239	28.775	1.00 42.23
ATOM	1986	C		A1038	51.496	67.691	28.996	1.00 42.23
	1987	0		A1038	51.359	68.450	28.057	1.00 42.23
ATOM				A1038	53.271	65.779	29.048	1.00 10.66
ATOM	1988	CB		A1038	53.679	65.007	27.861	1.00 10.66
ATOM	1989	CG		A1038	52.809	65.456	26.765	1.00 10.66
MOTA	1990	CD		A1038	51.381	68.090	30.253	1.00 39.67
ATOM	1991	N			51.037	69.509	30.576	1.00 39.67
ATOM	1992	CA		A1039	49.924	69.987	29.682	1.00 39.67
MOTA	1993	C		A1039	50.172	70.931	28.955	1.00 39.67
ATOM	1994	0		A1039		70.457	30.375	1.00 15.36
MOTA	1995	CB		A1039	52.256		31.103	1.00 15.36
MOTA	1996	CG		A1039	53.503	69.958		1.00 15.36
ATOM	1997	CD1		A1039	54.685	69.536	30.407	1.00 15.36
MOTA	1998	CD2		A1039	53.518	69.952	32.481	
ATOM	1999	CE1		A1039	55.790	69.157	31.105	1.00 15.36
MOTA	2000	CE2		A1039	54.636	69.571	33.153	1.00 15.36
MOTA	2001	CZ		A1039	55.737	69.191	32.449	1.00 15.36
MOTA	2002	OH		A1039	56.737	68.889	33.251	1.00 15.36
ATOM	2005	N	CYS	A1040	48.756	69.319	29.692	1.00100.00
MOTA	2006	CA		A1040	47.597	69.681	28.845	1.00100.00
MOTA	2007	C _.		A1040	47.013	70.930	29.435	1.00100.00
MOTA	2008	o"	CYS	A1040	46.711	70.987	30.625	1.00100.00
ATOM	2009	CB	CYS	A1040	45.507	68.566	28.832	1.00 63.76
MOTA	2010	SG	CYS	A1040	45.039	68.722	27.619	1.00 63.76
MOTA	2012	N	GLY	A1041	46.836	71.938	28.605	1.00 75.53
ATOM	2013	CA		A1041	46.305	73.175	29.127	1.00 75.53
ATOM	2014	C		A1041	47.419	74.160	29.448	1.00 75.53
ATOM	2015	0		A1041	47.217	75.358	29.342	1.00 75.53
ATOM	2017	N		A1042	48.581	73.668	29.868	1.00 27.54
ATOM	2018	CA		A1042	49.666	74.553	30.126	1.00 27.54
ATOM	2019	C		A1042	50.119	75.065	28.731	1.00 27.54
ATOM	2020	0		A1042	50.034	74.344	27.742	1.00 27.54
	2021	CB		A1042	50.771	73.851	30.909	1.00 47.82
ATOM		CG		A1042	51.032	74.460	32.298	1.00 47.82
ATOM	2022	SD		A1042 A1042	52.810	74.502	32.805	1.00 47.82
ATOM	2023				52.729	74.790	34.564	1.00 47.82
ATOM	2024	CE	MEL	A1042	24.143	1=110		

ATOM	2026	N	THR	A1043		50.481		76.351	28.681		59.25
ATOM	2027	CA	THR	A1043		50.918	7	77.067	27.468		59.25
MOTA	2028	С	THR	A1043		52.434	7	76.937	27.397		59.25
ATOM	2029	0	THR	A1043		53.084	7	76.835	28.437		59.25
ATOM	2030	CB	THR	A1043		50.586	7	78.617	27.528	1.00	62.50
ATOM	2031	OG1	THR	A1043		51.070	7	79.181	28.773	1.00	62.50
ATOM	2032	CG2	THR	A1043		49.076	7	8.877	27.351	1.00	62.50
ATOM	2035	N	CYS	A1044		5 2. 9 97	7	76.968	26.194	1.001	.00.00
ATOM	2036	CA		A1044		54.435	7	76.799	26.060	1.001	.00.00
ATOM	2037	C		A1044		55.282	-	77.679	26.975	1.001	.00.00
ATOM	2038	0		A1044		56.478		77.467	27.100	1.001	.00.00
ATOM	2039	CB		A1044		54.857		6.963	24.601	1.00	77.67
ATOM	2040	SG		A1044		54.890		75.383	23.687		77.67
	2042	И		A1045		54.673		78.663	27.623	1.001	.00.00
ATOM	2042	CA		A1045		55.425		79.501	28.548		.00.00
ATOM		C		A1045		54.810		79.446	29.910		.00.00
ATOM	2044					55.455		79.833	30.878		.00.00
MOTA	2045	0		A1045		55.461		30.899	28.107		35.04
ATOM	2046	CB		A1045		53.550		79.023	30.018		27.64
ATOM	2048	N		A1046					31.346		27.64
MOTA	2049	CA		A1046		53.057		78.932	31.917		27.64
MOTA	2050	C		A1046		54.177		78.018			
ATOM	2051	0		A1046		54.507		78.117	33.092		27.64 79.70
MOTA	2052	CB		A1046		51.665		78.264	31.365		
ATOM	2053	CG		A1046		50.465		79.239	31.521		79.70
MOTA	2054	CD		A1046		49.180		78.818	30.745	1.00	79.70
MOTA	2055	OE1	GLU	A1046		48.058		79.216	31.128		79.70
MOTA	2056	OE2	GLU	A1046		49.264		78.096	29.748		79.70
ATOM	2058	N		A1047		54.800		77.199	31.050		83.80
MOTA	2059	CA		A1047		55.871		76.230	31.413		83.80
MOTA	2060	С		A1047		57.286		76.737	31.645		83.80
ATOM	2061	0	LEU	A1047		57.838		76.529	32.712	1.00	
MOTA	2062	CB		A1047		55.968		75.119	30.368		39.62
MOTA	2063	CG		A1047		55.167		73.857	30.626		39.62
MOTA	2064	CD1	LEU	A1047		55.186		73.119	29.339		39.62
ATOM	2065	CD2	LEU	A1047		55.697		73.034	31.803		39.62
MOTA	2067	N	TYR	A1048		57.904	-	77.315	30.615		32.07
MOTA	2068	CA	TYR	A1048		59.235	,	77.894	30.746	1.00	32.07
MOTA	2069	С	TYR	A1048		59.043	•	78.647	32.109	1.00	32.07
ATOM	2070	0	TYR	A1048		59.704	•	78.383	33.115		32.07
ATOM	2071	CB	TYR	A1048		59.498		78.877	29.566		14.15
ATOM		. CG	TYR	A1048		60.160	•	78.333	28.256		14.15
ATOM	2073		TYR	A1048		59.401	•	77.982	27.165	1.00	14.15
ATOM	2074			A1048		61.563	•	78.249	28.095	1.00	14.15
ATOM	2075	CEl		A1048		59.969	,	77.565	25.934		14.15
ATOM	2076	CE2		A1048		62.137		77.841	26.871	1.00	14.15
ATOM	2077	CZ		A1048		61.359		77.502	25.784	1.00	14.15
ATOM	2078	OH		A1048		61.927		77.135	24.513	1.00	14.15
MOTA	2081	N		A1049		58.055		79.533	32.169	1.00	36.64
ATOM	2082	CA		A1049		57.811		80.267	33.390	1.00	36.64
MOTA	2083	C		A1049	*	57.770		79.384	34.578	1.00	36.64
ATOM	2083	0		A1049	•	58.757		79.290	35.320		35.64
	2084	CB		A1049		56.500		81.002	33.368		35.78
ATOM				A1049		56.151		81.544	34.760		35.78
ATOM	2086	CG				54.683		81.875	34.899		35.78
MOTA	2087	CD		A1049 A1049		53.989		82.043	33.858		35.78
MOTA	2088					54.252		81.947			35.78
ATOM	2089			A1049 A1050		56.601		78.737			93.85
MOTA	2091	N	mrs	ATUDU		20.001	•	, 0 . , 5 ,			

FIG. 6DD ,

MOTA	2092	CA	LYS	A1050	56.197	77.839	35.793	1.00 93.85
MOTA	2093	С	LYS	A1050	57.046	76.622	36.085	1.00 93.85
ATOM	2094	0		A1050	57.178	76.212	37.231	1.00 93.85
ATOM	2095	CB		A1050	54.752	77.418	35.584	1.00 86.89
ATOM	2097	N		A1051	57.599	76.008	35.063	1.00 40.78
ATOM	2098	CA	LEU	A1051	58.458	74.868	35.336	1.00 40.78
MOTA	2099	С		A1051	59.412	75.166	36.508	1.00 40.78
MOTA	2100	0		A1051		74.483	37.539	1.00 40.78
MOTA	2101	CB		A1051	59.201	74.391	34.072	1.00 66.80
ATOM	2102	CG		A1051	58.984	72.898	33.726	1.00 66.80
ATOM	2103			A1051	57.754	72.376	34.370	1.00 66.80
MOTA	2104	CD2		A1051	58, 875	72.719	32.253	1.00 66.80
MOTA	2106	N		A1052	60.356	76.129	36.369	1.00 42.79
MOTA	2107	CA		A1052	61.299	76.504	37.431	1.00 42.79
MOTA	2108	C		A1052	60.655	76.803	38.741	1.00 42.79
MOTA	2109	0		A1052	61.311	76.783	39.783	1.00 42.79
ATOM	2110	CB		A1052	61.928	77.731	36.906	1.00 29.07
MOTA	2111	CG		A1052	61.952	77.549	35.473	1.00 29.07
ATOM	2112	CD		A1052	60.713	76.805	35,110	1.00 29.07
MOTA	2113	N		A1053	59.365	77.114	38.699	1.00 68.39,
MOTA	2114	CA		A1053	58.662	77.426	39.921	1.00 68.39
MOTA	2115	С		A1053	58.823	76.206	40.781	1.00 68.39
ATOM	2116	0		A1053	58.934	76.303	41.999	1.00 68.39
MOTA	2117	CB		A1053	57.200	77.701	39.646	1.00100.00
ATOM	2119	N		A1054	58.852	75.049	40.125	1.00 93.49
ATOM	2120	CA		A1054	59.012	73.776	40.808	1,00 93.49
ATOM	2121	C		A1054	57.849	72.863	40.494	1.00 93.49
ATOM .	2122	0		A1054	57.727	71.794	41.065	1.00 93.49
MOTA	2124	N		A1055	57.000	73.311	39.577	1.00 23.98
ATOM	2125	CA		A1055	55.804	72.609	39.141	1.00 23.98
MOTA	2126	C		A1055	56.207	71.481	38.197	1.00 23.98
MOTA	2127	0		A1055	57.062	71.702	37.321	1.00 23.98
MOTA	2128	CB		A1055	54.869	73.579	38.415	1.00 76.79
MOTA	2129	CG		A1055	53.703	72.894	37.769	1.00 76.79
MOTA	2130	CD1		A1055	52.547	72.645	38.480	1.00 76.79
ATOM	2131	CD2		A1055	53.803	72.391	36.479	1.00 76.79
MOTA	2132	CE1		A1055	51.516	71.891	37.927	1.00 76.79
MOTA	2133	CE2		A1055	52.788	71.639	35.913	1.00 76.79
MOTA	2134	CZ		A1055	51.647	71.382	36.644	1.00 76.79
MOTA	2135	OH		A1055	50.677	70.559	36.119	1.00 76.79
MOTA	2138	N		A1056	55.598	70.299	38.398	1.00 28.98
MOTA	2139	CĀ		A1056	55.836	69.092	37.633	1.00 28.98
MOTA	2140	C'		A1056	54.472	68.506	37.281	1.00 28.98
MOTA	2141	0		A1056	53.443	68.997	37.844	1.00 28.98
MOTA	2142	CB		A1056	56.540	68.057	38.504	1.00 43.74
MOTA	2143	CG		A1056	57.930	68.420	39.046	1.00 43.74
MOTA	2144	CD		A1056	58.890	68.928	37.990	1.00 43.74
MOTA	2145	NE		A1056	59.420	70.184	38.476	1.00 43.74
MOTA	2146	CZ		A1056	60.710	70.421	38.632	1.00 43.74
ATOM	2147			A1056	61.589	69.481	38.326	1.00 43.74
ATOM	2148	NH2		A1056	61.113	71.570	39.153	1.00 43.74
MOTA	2155	N		A1057	54.457	67.425	36.423	1.00 3.73
ATOM	2156	CA		A1057	53.199	66.719	36.037	1.00 3.73
ATOM	2157	C		A1057	52.455	66.273	37.247	1.00 3.73 1.00 3.73
ATOM	2158	0		A1057	53.013	65.940	38.293	1.00 3.73 1.00 53.30
ATOM	2159	CB		A1057	53.453	65.540	35.129	1.00 53.30
ATOM	2160	CG	ьву	A1057	53.594	65.965	33.659	1.00 23.30

ATOM	2230	N		A1065	51.409	55.855	43.980		46.39
MOTA	2231	CA		A1065	52.499	56.662	44.508		46.39
ATOM	2232	C	AS₽	A1065	53.884	56.043	44.229		46.39
ATOM	2233	0		A1065	54.869	56.717	44.124		46.39
ATOM	2234	CB	ASP	A1065	52.299	56.875	46.021	1.00	75.00
ATOM	2235	CG	ASP	A1065	51.156	57.855	46.357	1.00	75.00
ATOM	2236	ODl	ASP	A1065	50.426	58.300	45.452	1.00	75.00
ATOM	2237	OD2	ASP	A1065	50.988	58.179	47.550	1.00	75.00
ATOM	2239	N		A1066	53.951	54.742	44.107	1.00	29.06
ATOM	2240	CA		A1066	55.205	54.101	43.803	1.00	29.06
ATOM	2241	C		A1066	55.543	54.513	42.403	1.00	29.06
ATOM	2242	0		A1066	56.559	55.189	42.220		29.06
	2242	CB		A1066	55.109	52.567	43.888		46.46
ATOM		CG		A1066	56.488	51.877	43.895		46.46
ATOM	2244			A1066	56.612	50.697	44.880		46.46
MOTA	2245	CD			55.711	50.554	45.759		46.46
ATOM	2246			A1066			44.765		46.46
ATOM	2247	OE2		A1066	57.616	49.923			32.03
MOTA	2249	N		A1067	54.727	54.154	41.416		32.03
ATOM	2250	CA		A1067	55.023	54.533	40.036		
MOTA	2251	C		A1067	55.293	56.054	39.731		32.03
MOTA	2252	0	VAL	A1067	56.029	56.405	38.812		32.03
ATOM	2253	CB	VAL	A1067	53.885	54.021	39.107		15.97
MOTA	2254	CG1	VAL	A1067	53.965	54.642	37.618		15.97
ATOM	2255	CG2	VAL	A1067	53.929	52.448	39.087		15.97
ATOM	2257	N	TYR	A1068	54.738	56.973	40.480	1.00	40.19
ATOM	2258	CA	TYR	A1068	55.001	58.328	40.091	1.00	40.19
ATOM	2259	С		A1068	56.057	58.982	40.941	1.00	40.19
ATOM	2260	ō .		A1068	56.899	59.755	40.422	1.00	40.19
ATOM	2261	СВ		A1068	53.684	59.082	40.070	1.00	3.92
ATOM	2262	CG		A1068	53.658	60.503	40.344	1.00	3.92
MOTA	2263	CD1		A1068	53.484	61.369	39.326	1.00	3.92
MOTA	2264	CD2		A1068	53.650	60.958	41.607	1.00	3.92
MOTA	2265	CE1		A1068	53.296	62.732	39.530	1.00	3.92
	2266	CE2		A1068	53.473	62.266	41.862	1.00	3.92
ATOM				A1068	53.311	63.163	40.812	1.00	3.92
MOTA	2267	CZ		A1068	53.384	64.523	41.015	1.00	3.92
MOTA	2268	OH			55.999	58.711	42.242		34.55
MOTA	2271	N		A1069			43.139		34.55
MOTA	2272	CA		A1069	57.036	59.211			34.55
MOTA	2273	C		A1069	58.139	58.257	42.721		34.55
MÓTA	2274	0		A1069	58.415	57.326	43.454		
ATOM	2275	CB		A1069	56.639	58.964	44.588		80.97
MOTA	2276	CG		A1069	57.819	58.905	45.514		80.97
ATOM	2277	OP1	ASP	A1069	58.968	59.094	45.061		80.97
MOTA	2278	OD2	ASP	A1069	57.591	58.673	46.714		80.97
ATOM	2280	N	LEU	A1070	58.667	58.506	41.503	1.00	4.63
ATOM	2281	CA	LEU	A1070	59.682	57.806	40.729	1.00	4.63
ATOM	2282	С	LEU	A1070	59.701	58.504	39.408	1.00	4.63
ATOM	2283	0	LEU	A1070	60.763	58.899	38.932	1.00	4.63
ATOM	2284	CB		A1070	59.389	56.337	40.348	1.00	3,5.45
ATOM	2285	CG		A1070	60.432	56.018	39.208	1.00	35.45
ATOM	2286			A1070	61.722	55.660	39.890	1.00	35.45
ATOM	2287	CD2		A1070	60.081	54.914	38.223		35.45
MOTA	2289	N		A1071	58.577	58.594	38.714		33.43
		CA		A1071	58.662	59.377	37.490		33.43
ATOM	2290	CA		A1071	59.072	60.795	37.999		33.43
ATOM	2291				59.717	61.547	37.301		33.43
ATOM	2292	0		A1071			36.716		46.26
MOTA	2293	CB	MET	A1071	57.328	59.425	50.710	<u></u>	

MOTA	2294	CG	MET	A1071	56.293	60.425	37.126		46.26
ATOM	2295	SD	MET	A1071	54.669	59.634	37.210		46.26
ATOM	2296	CE	MET	A1071	54.450	58.978	35.595		46.26
ATOM	2298	N	ARG	A1072	58.729	61.126	39.238	1.00	
MOTA	2299	CA	ARG	A1072	59.114	62.389	39.800		27.25
ATOM	2300	С	ARG	A1072	60.612	62.482	40.123	1.00	27.25
ATOM	2301	0	ARG	A1072	61.232	63.557	40.039	1.00	27.25
ATOM	2302	СВ		A1072	58.293	62.660	41.064	1.001	00.00
ATOM	2303	CG		A1072	56.890	63.206	40.805	1.001	00.00
ATOM	2304	CD		A1072	56.900	64.723	40.605	1.001	00.00
ATOM	2305	NE		A1072	57.085	65.438	41.861	1.001	00.00
	2306	CZ		A1072	56.517	66.600	42.150	1.001	00.00
	2307			A1072	55.722	67.184	41.271	1.001	00.00
ATOM		NH2		A1072	56.749	67.178	43.315	1.001	00.00
MOTA	2308			A1072	61.212	61.376	40.533	1.00	
ATOM	2315	N			62.625	61.439	40.836	1.00	
ATOM	2316	CA		A1073	63.329	61.922	39.571		63.04
MOTA	2317	C		A1073			39.623		63.04
ATOM	2318	0		A1073	64.270	62.702			85.05
MOTA	2319	CB		A1073	63.152	60.060	41.233		
MOTA	2320	CG		A1073	62.417	59.384	42.387		85.05
ATOM	2321	CD		A1073	63.134	58.127	42.896		85.05
ATOM	2322	OE1	GLN	A1073	62.615	57.410	43.752		85.05
MOTA	2323	NE2	GLN	A1073	64.322	57.859	42.364		85.05
MOTA	2327	N	CYS	A1074	62.838	61.488	38.421		37.06
MOTA	2328	CA	CYS	A1074	63.456	61.841	37.163		37.06
ATOM	2329	С	CYS	A1074	63.305	63.280	36.845	1.00	37.06
ATOM	2330	0	CYS	A1074	63.613	63.703	35.747	1.00	37.06
ATOM	2331	CB	CYS	A1074	62.838	61.039	36.021		55.92
ATOM	2332	SG		A1074	62.574	59.373	36.414	1.00	55.92
ATOM	2334	N	TRP	A1075	62.780	64.030	37.793	1.00	54.40
ATOM	2335	CA	TRP	A1075	62.549	65.443	37.559	1.00	54.40
	2336	C	TRP	A1075	63.051	66.360	38.693	1.00	54.40
MOTA	2337	0	TRP	A1075	62.683	67.533	38.757	1.00	54.40
ATOM			TRP	A1075	61.055	65.719	37.347		13.83
ATOM	2338	CB			60.306	65.009	36.268		13.83
ATOM	2339	CG		A1075	60.694	64.793	34.985		13.83
MOTA	2340	CD1		A1075		64.566	36.350		13.83
MOTA	2341	CD2			58.962		34.259		13.83
MOTA	2342	NEl		A1075	59.683	64.256	35.078	1.00	13.83
MOTA	2343	CE2	TRP	A1075	58.593	64.109		1.00	13.83
ATOM	2344	CE3	TRP		58.029	64.518	37.373	1.00	13.83
ATOM	2345	CZ2		A1075	57.303	63.604	34.801		
ATOM	2346	CZ3	TRP	A1075	56.751	64.011	37.074		13.83
MOTA	2347	ĊH2	TRP	A1075	56.423	63.573	35.814		13.83
MOTA	2350	N _.	ARG	A1076	63.867	65.842	39.597		99.49
MOTA	2351	CA	ARG	A1076	64.354	66.722	40.635		99.49
ATOM	2352	C	ARG	A1076	64.967	67.872	39.838		99.49
ATOM	2353	0	ARG	A1076	65.185	67.747	38.637		99.49
ATOM	2354	CB	ARG	A1076	65.412	66.011	41.484	1.00	96.28
ATOM	2355	CG		A1076	64.948	64.665	42.026		96.28
ATOM	2356	CD		A1076	65.966	64.028	42.968		96.28
ATOM	2357	NE		A1076	65.361	63.411	44.155		96.28
	2358	CZ		A1076	65.408	62.110	44.427	1.00	96.28
ATOM				A1076	66.029	61.286	43.595		96.28
ATOM	2359			A1076	64.855	61.635	45.538		96.28
ATOM	2360				65.200	69.008	40.469		54.46
ATOM	2367	N		A1077	65.824	70.107	39.764		54.46
ATOM	2368	CA		A1077	67.293	69.771	39.587		54.46
MOTA	2369	C	اللك	1 A1077	01.233	02.111	37.307		

FIG. 6HH

		_		77077		C7 700	CD 438	38.509	1.00 54.46
ATOM	2370	0		A1077		67.727	69.428	40.555	1.00 10.55
MOTA	2371	CB		A1077		65.689	71.328	40.670	1.00 10.33
MOTA	2373	N		A1078		68.050	69.854		
MOTA	2374	CA		A1078		69.476	69.542	40.642	
MOTA	2375	C		A1078		69.746	68.345	39.704	1.00 35.40
ATOM	2376	0		A1078		69.592	67.215	40.099	1.00 35.40
ATOM	2377	CB	LYS	A1078		69.954	69.234	42.058	1.00 95.51
ATOM	2378	CG	LYS	A1078		70.054	70.458	42.936	1.00 95.51
ATOM	2379	CD	LYS	A1078		70.070	70.094	44.414	1.00 95.51
ATOM	2380	CE	LYS	A1078		71.487	70.050	44.990	1.00 95.51
ATOM	2381	NZ	LYS	A1078		71.575	69.341	46.309	1.00 95.51
MOTA	2386	N	PRO	A1079		70.230	68.582	38.481	1.00 54.45
MOTA	2387	CA	PRO	A1079		70.437	67.398	37.643	1.00 54.45
ATOM	2388	Ç	PRO	A1079		71.172	66.206	38,238	1.00 54.45
ATOM	2389	0		A1079		70.745	65.097	38.040	1.00 54.45
ATOM	2390	CB		A1079		71.099	67.958	36.381	1.00 46.70
ATOM	2391	CG		A1079		70.732	69.385	36.376	1.00 46.70
ATOM	2392	CD		A1079		70.658	69.817	37.801	1.00 46.70
	2393	N		A1080		72.265	66.402	38.968	1.00100.00
ATOM				A1080		72.963	65.243	39.542	1.00100.00
MOTA	2394	CA				72.128	64.578	40.621	1.00100.00
MOTA	2395	C		A1080			63.747	41.375	1.00100.00
ATOM	2396	0		A1080		72.619		40.141	1.00 41.54
MOTA	2397	CB		A1080		74.301	65.630	40.985	1.00 41.54
MOTA	2398	CG		A1080		74.194	66.859		1.00 41.54
ATOM	2399			A1080		73.912	66.774	42.320	1.00 41.54
MOTA	2400	CD2		A1080		74.316	68.109	40.422	1.00 41.54
MOTA	2401	CE1		A1080		73.757	67.883	43.061	1.00 41.54
MOTA	2402	CE2		A1080		74.158	69.220	41.161	1.00 41.54
MOTA	2403	CZ		A1080		73.882	69.118	42.480	
MOTA	2404	OH		A1080		73.778	70.273	43.233	1.00 41.54
MOTA	2407	N		A1081		70.870	64.982	40.712	1.00 38.29
MOTA	2408	CA	GLU	A1081		69.948	64.379	41.652	1.00 38.29
MOTA	2409	С		A1081		69.030	63.423	40.853	1.00 38.29
ATOM	2410	0	\mathtt{GLU}	A1081		68.522	62.443	41.398	1.00 38.29
ATOM	2411	CB	GLU	A1081		69.214	65.451	42.451	1.00 37.33
MOTA	2412	CG	GLU	A1081		69.927	65.679	43.797	1.00 37.33
ATOM	2413	CD	GLU	A1081		69.529	66.957	44.542	1.00 37.33
ATOM	2414	OE1	GLU	A1081		70.080	67.203	45.646	1.00 37.33
ATOM	2415	OE2	GLU	A1081	-	68.676	67.741	44.045	1.00 37.33
ATOM	2417	N	ARG	A1082		68.876	63.690	39.550	1.00 35.27
ATOM	2418	CA	ARG	A1082		68.154	62.803	38.655	1.00 35.27
ATOM	2419	С	ARG	A1082		68.831	61.404	38.883	1.00 35.27
ATOM	2420	0	ARG	A1082		69.932	61.322	39.463	1.00 35.27
ATOM	2421	CB	ARG	A1082		68.336	63.260	37.216	1.00 62.49
ATOM	2422	CG		A1082		67.202	64.072	36.647	1.00 62.49
ATOM	2423	CD	ARG	A1082		67.299	65.548	36.942	1.00 62.49
MOTA	2424	NE		A1082		67.442	66.375	35.737	1.00 62.49
ATOM	2425	CZ		A1082		67.099	67.665	35.661	1.00 62.49
ATOM	2426			A1082		66.585	68.293	36.705	1.00 62.49
ATOM	2427	NH2		A1082		67.317	68.345	34.547	1.00 62.49
	2434	N		A1083		68.144	60.280	38.530	1.00 37.62
ATOM		CA		A1083		68.732	58.945	38.729	1.00 37.62
ATOM ATOM	2435 2436	CA		A1083		69.270	58.328	37.461	1.00 37.62
		0		A1083		68.905	58.780	36.414	1.00 37.62
ATOM	2437			A1083		67.541	58.148	39.267	1.00 40.57
ATOM	.2438	CB				66.294		39.213	1.00 40.57
ATOM	2439	CG		A1083		66.721	60.125	38.171	1.00 40.57
ATOM	2440	CD	PKO	A1083		00.721	00.123	JU.1.1	

WO 01/72778 PCT/US01/08853

ATOM	2441	N	SER	A1084	70.157	57.337	37.541	1.00 23.77	
ATOM	2442	CA	SER	A1084	70.642	56.597	36.339	1.00 23.77	
ATOM	2443	С	SER	A1084	69.465	55.689	35.826	1.00 23.77	
MOTA	2444	0	SER	A1084	68.690	55.172	36.633	1.00 23.77	
MOTA	2445	CB	SER	A1084	71.772	55.617	36.733	1.00 2.00	
MOTA	2446	OG	SER	A1084	71.518	55.019	38.069	1.00 2.00	
ATOM	2449	N	PHE	A1085	69.330	55.466	34.520	1.00 44.36	
ATOM	2450	CA	PHE	A1085	68.272	54.565	34.032	1.00 44.36	
MOTA	2451	С	PHE	A1085	68.458	53.237	34.801	1.00 44.36	
ATOM	2452	0	PHE	A1085	67.633	52.852	35.603	1.00 44.36	
ATOM	2453	CB	PHE	A1085	68.414	54.399	32.529	1.00 95.75	
ATOM	2454	CG	PHE	A1085	68.175	55.669	31.783	1.00 95.75	
ATOM	2455	CDI	PHE	A1085	69.088	56.137	30.866	1.00 95.75	
ATOM	2456	CD2	PHE	A1085	67.036	56.409	32.022	1.00 95.75	
ATOM	2457	CE1	PHE	A1085	68.863	57.321	30.200	1.00 95.75	
MOTA	2458	CE2	PHE	A1085	66.807	57.591	31.361	1.00 95.75	
MOTA	2459	CZ	PHE	A1085	67.713	58.049	30.452	1.00 95.75	
ATOM	2461	N	ALA	A1086	69.541	52.541	34.541	1.00 35.91	
ATOM	2462	CA	ALA	A1086	69.894	51.395	35.347	1.00 35.91	
MOTA	2463	C	ALA	A1086	69.171	51.316	36.743	1.00 35.91	
MOTA	2464	Q	ALA	A1086	68.741	50.223	37.179	1.00 35.91	
MOTA	2465	CB	ALA	A1086	71.400	51.423	35.580	1.00 44.62	
MOTA	2467	N	GLN	A1087	69.081	52.427	37.464	1.00 20.15	
ATOM	2468	CA	GLN	A1087	68.394	52.412	38.732	1.00 20.15	
MOTA	2469	C	GLN	A1087	66.842	52.338	38.466	1.00 20.15	
ATOM	2470	0	GLN	A1087	66.039	51.538	39.059	1.00 20.15	
MOTA	2471	CB	GLN	A1087	68.766	53.690	39.501	1.00 19.20	
MOTA	2472	CG	${\tt GLN}$	A1087	70.227	53.686	40.069	1.00 19.20	
ATOM	2473	CD	GLN	A1087	70.563	54.908	40.926	1.00 19.20	
MOTA	2474	OE1	GLN	A1087	70.927	55.939	40.379	1.00 19.20	
ATOM	2475	NE2	GLN	A1087	70.473	54.783	42.263	1.00 19.20	
ATOM	2479	N	ILE.	A1088	66.451	53.197	37.550	1.00 25.82	
MOTA	2480	CA	ILE	A1088	65.088	53.310	37.160	1.00 25.82	
ATOM	2481	C		A1088	64.852	51.851	36.847	1.00 25.82	
ATOM	2482	0		A1088	63.966	51.300	37.447	1.00 25.82	
ATOM	2483	CB	ILE	A1088	64.921	54.260	35.919	1.00 17.84	
ATOM	2484	CG1	ILE	A1088	65.069	55.704	36.340	1.00 17.84	
MOTA	2485	CG2		A1088	63.626	53.984	35.170	1.00 17.84	
ATOM	2486	CD1	ILE	A1088	65.738	56.545	35.203	1.00 17.84	
ATOM	2488	N		A1089		51.205			
ATOM	2489	CA		A1089	65.380	49.747	35.692	1.00 19.62	
MOTA	2490	C		A1089	65.471	48.746	36.793	1.00 19.62	
MOTA	2491	0		A1089	64.899	47.746	36.680	1.00 19.62	
MOTA	2492	ĊВ		A1089	66.155	49.127	34.566	1.00 2.73	
MOTA	2493	CG		A1089	65.363	47.882	33.978	1.00 2.73	
MOTA	2494			A1089	65.305	47.787	32.425	1.00 2.73	
ATOM	2495			A1089	66.127	46.642	34.338	1.00 2.73	
MOTA	2497	N		A1090	66.164 _.	48.988	37.866	1.00 15.82	
MOTA	2498	CA	VAL	A1090	66.074	47.993	38.898	1.00 15.82	
MOTA	2499	С		A1090	64.931	48.400	39.791	1.00 15.82	
MOTA	2500	0		A1090	64.700	47.776	40.834	1.00 15.82	
ATOM	2501	CB		A1090	67.396	47.811	39,695	1.00 8.61	
MOTA	2502			A1090	67.259	48.053	41.220	1.00 8.61	
MOTA	2503	CG2		A1090	67.829	46.397	39.452	1.00 8.61	
ATOM	2505	N	SER	A1091	64.218	49.451	39.377	1.00 45.24	
ATOM	2506	CA	SER	A1091	63.073	50.005	40.110	1.00 45.24	
ATOM	2507	С	SER	A1091 '	61.708	49.486	39.628	1.00 45.24	

ATOM	2508	0		A1091		60.764	49.305	40.422	1.00 45.24
ATOM	2509	CB		A1091		63.064	51.511	39.963	1.00 46.04
ATOM	2510	QG		A1091		62.473	52.119	41.083	1.00 46.04
ATOM	2513	N		A1092		61.582	49.317	38.318	1.00 48.10
MOTA	2514	CA		A1092		60.336	48.814	37.772	1.00 48.10
ATOM	2515	C		A1092		60.362	47.286	37.896	1.00 48.10
ATOM	2516	0		A1092		59.310	46.649	38.093	1.00 48.10
ATOM	2517	CB		A1092		60.226	49.217	36.335	1.00 20.50
MOTA	2518	CG		A1092		60.649	50.636	36.171	1.00 20.50
ATOM	2519	CD1		A1092		61.112	50.957	34.819	1.00 20.50
ATOM	2520			A1092		59.492	51.389	36.445	1.00 20.50
ATOM	2522	N		A1093		61.588	46.721	37.764	1.00 21.90
ATOM	2523	CA		A1093		61.816	45.284	37.914	1.00 21.90
ATOM	2524	С		A1093		61.298	44.970	39.321	1.00 21.90
ATOM	2525	0		A1093		60.506	44.064	39.515	1.00 21.90
ATOM	2526	CB		A1093		63.301	45.010	37.802	1.00 40.34
ATOM	2527	ÇG		A1093		63.756	44.903	36.364	1.00 40.34
ATOM	2528			A1093		64.796	44.322	36.103	1.00 40.34
MOTA	2529			A1093		62.989	45.468	35.422	1.00 40.34
ATOM	2533	N		A1094		61.699	45.746	40.314	1.00 34.76
ATOM	2534	CA		A1094		61.194	45.385	41.611	1.00 34.76
MOTA	2535	C		A1094		59.685	45.221	41.451	1.00 34.76
ATOM	2536	0		A1094		59.122	44.320	42.022	1.00 34.76
ATOM	2537	CB	ARG	A1094		61.515	46.451	42.653	1.00 99.74
ATOM	2538	CG	ARG	A1094		61.377	45.969	44.088	1.00 99.74
MOTA	2539	CD	ARG	A1094		59.934	46.037	44.575	1.00 99.74
MOTA	2540	NE	ARG	A1094		59.736	47.099	45.557	1.00 99.74
MOTA	2541	CZ		A1094		58.550	47.590	45.907	1.00 99.74
ATOM	2542	NHl	ARG	A1094		57.438	47.117	45.357	1.00 99.74
ATOM	2543	NH2	ARG	A1094		58.479	48.565	46.805	1.00 99.74
MOTA	2550	N	MET	A1095		59.045	46.073	40.640	1.00 52.46
ATOM	2551	CA	MET	A1095		57.594	46.029	40.452	1.00 52.46
MOTA	2552	C		A1095		57.136	44.721	39.781	1.00 52.46
ATOM	2553	0	MET	A1095		56.663	43.809	40.435	1.00 52.46
MOTA	2554	CB	MET	A1095		57.151	47.287	39.683	1.00 62.45
MOTA	2555	CG	MET	A1095		57.076	48.578	40.594	1.00 62.45
ATOM	2556	SD	MET	A1095		57.031	50.297	39.847	1.00 62.45
ATOM	2557	CE	MET	A1095		57.509	51.299	41.162	1.00 62.45
ATOM	2559	N	LEU	A1096		57.289	44,666	38.476	1.00 14.04
MOTA	2560	CA		A1096		57.029	43.531	37.600	1.00 14.04
ATOM	2561	С	LEU	A1096		57.039	42.101	38.255	1.00 14.04
ATOM	2562	0	LEU	A1096		56.575	41.148	37.638	1.00 14.04
ATOM	2563	CB	LEU	A1096		58.046	43.560	36.441	1.00 37.25
ATOM	2564	CG	LEU	A1096		58.047	44.610	35.300	1.00 37.25
ATOM	2565	CD1	LEU	A1095		59.158	44.291	34.269	1.00 37.25
ATOM	2566	CD2	LEU	A1096		56.643	44.684	34.592	1.00 37.25
MOTA	2568	N	GLU	A1097		57.574	41.928	39.450	1.00 42.58
ATOM	2569	CA	GLU	A1097		57.530	40.621	40.048	1.00 42.58
MOTA	2570	C ·	GLÜ	A1097		56.651	40.690	41.296	1.00 42.58
ATOM	2571	0	GLU	A1097		57.019	40.286	42.411	1.00 42.58
	2572	CB	GLU	A1097	_	58.919	40.136	40.396	1.00100.00
ATOM	2573	CG	GLU	A1097	-	59.757	39.901	39.188	1.00100.00
ATOM	2574	CD		A1097		60.925	40.839	39.144	1.00100.00
MOTA	2575			Al097		61.083	41.611	40.117	1.00100.00
ATOM	2576	OE2		A1097		61.680	40.799	38.147	1.00100.00
ATOM	2578	N		A1098		55.454	41.211	41.108	1.00 43.50
MOTA	2579	CA		A1098		54.540	41.313	42.226	1.00 43.50

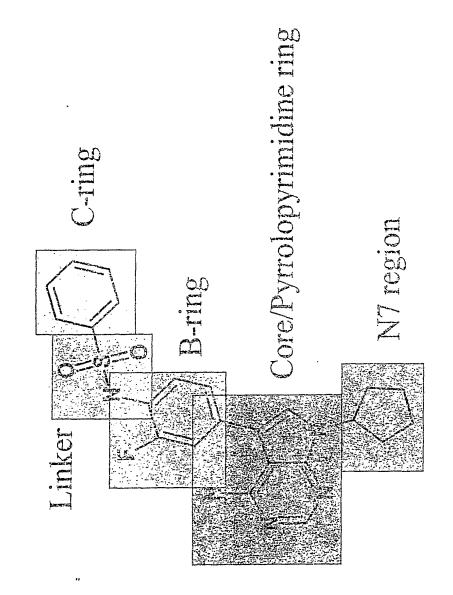
ATOM	2580	C	GLU	A1098	5	3.112	41.239	41.6/9	1.00 43.50
ATOM	2581	0	GLU	A1098	5	2.247	40.533	42.228	1.00 43.50
ATOM	2582	CB	GLU	A1098	5	4.783	42.639	42.970	1.00 60.12
ATOM	2583	CG	GLU	A1098	5	6.233	43.014	43.093	1.00 60.12
ATOM	2584	CD	GLU	A1098	5	6.895	42.498	44.392	1.00 60.12
ATOM	2585			A1098	5	6.253	42.586	45.481	1.00 60.12
	2586	OE2		A1098		8.071	42.019	44.331	1.00 60.12
ATOM	2588	N		A1099		2.896	41.931	40.566	1.00100.00
MOTA				A1099		1.564	42.010	40.005	1.00100.00
MOTA	2589	CA		A1099		0.792	42.471	41.232	1.00100.00
MOTA	2590	C				0.117	41.681	41.899	1.00100.00
ATOM	2591	0		A1099				39.530	1.00 69.49
MOTA	2592	CB		A1099		1.050	40.643	38.761	1.00 69.49
ATOM	2593	CG		A1099		9.707	40.745		1.00 69.49
MOTA	2594	CD		A1099		9.883	40.941	37.244	
MOTA	2595	NE		A1099		9.647	42.326	36.812	1.00 69.49
ATOM	2596	CZ	ARG	A1099	4	9.095	42.672	35.648	1.00 69.49
ATOM	2597	NH1	ARG	A1099	4	8.705	41.740	34.782	1.00 69.49
ATOM	2598	NH2	ARG	A1099	4	8.989	43.951	35.322	1.00 69.49
ATOM	2605	N	LYS	A1100	5	0.957	43.748	41.555	1.00 49.25
ATOM	2606	CA	LYS	A1100	5	0.308	44.328	42.698	1.00 49.25
ATOM	2607	C		A1100	4	9.232	45.070	42.019	1.00 49.25
ATOM	2608	0	LYS	A1100		8.111	45.129	42.502	1.00 49.25
	2609	CB		A1100		1.247	45.296	43.419	1.00 99.82
MOTA		CG		A1100		0.853	45.635	44.859	1.00 99.82
ATOM	2610			A1100		0.997	44.447	45.815	1.00 99.82
MOTA	2611	CD				9.635	43.868	46.212	1.00 99.82
ATOM	2612	CE		A1100		9.247	44.148	47.622	1.00 99.82
MOTA	2613	NZ		A1100			45.578	40.850	1.00 64.74
ATOM	2618	N		A1101		9.603		39.946	1.00 64.74
MOTA	2619	CA		A1101		8.769	46.370		1.00 64.74
MOTA	2620	С		A1101		19.030	47.835	40.194	
ATOM	2621	0	THR	A1101		18.381	48.463	41.014	1.00 64.74
ATOM	2622	CB		A1101		17.282	46.080	40.069	1.00100.00
MOTA	2623	OG1	THR	A1101	4	17.083	44.676	40.244	1.00100.00
ATOM	2624	CG2	THR	A1101	4	16.581	46.494	38.801	1.00100.00
ATOM	2627	N	TYR	A1102	ğ	50.026	48.346	39.472	1.00 78.61
ATOM	2628	CA	TYR	A1102		50.462	49.715	39.571	1.00 78.61
MOTA	2629	C	TYR	A1102	4	19.666	50.619	38.672	1.00 78.61
ATOM	2630	0	TYR	A1102	4	19.438	51.753	39.026	1.00 78.61
MOTA	2631	CB		A1102		51.960	49.856	39.210	1.00 42.69
ATOM	2632	CG		A1102		52.910	49.107	40.092	1.00 42.69
		CD1		A1102		53.228	47.735	39.812	1.00 42.69
MOTA	2633			A1102		53.356	49.663	41.288	1.00 42.69
ATOM	2634	CD2				53.926	46.943	40.711	1,00 42.69
ATOM	2635	ÇE1		A1102			48.880	42.207	1.00 42.69
MOTA	2636	CE2		A1102		54.061	47.512	41.917	1.00 42.69
ATOM	2637	CZ		A1102		54.327		42.873	1.00 42.69
ATOM	2638	OH		A1102		54.871	46.698	37.513	
MOTA	2641	N		A1103		49.233	50.151		
MOTA	2642	CA		A1103		48.509	51.066	36.650	
ATOM	2643	С	VAL	A1103		47.068	50.762	36.293	
MOTA	2644	0	IAV	A1103		46.757		35.175	
ATOM	2645	CB	VAI	A1103		49.276	51.326	35.350	1.00100.00
ATOM	2646		VAL	A1103		48.590	52.426	34.565	1.00100.00
ATOM	2647	CG2		A1103		50.694	51.746	35.661	1.00100.00
ATOM	2649	N		A1104		46.191	50.990	37.260	1.00 30.52
ATOM	2650	CA		A1104		44.768	50.802	37.118	1.00 30.52
	2651	C		I A1104		44.245			1.00 30.52
ATOM		0		7 All04		44.475		35.289	1.00 30.52
MOTA	2652	J	491	. 47704	•				

									-
MOTA	2653	CB .	ASN	A1104		44.041	51.572	38.171	1.00 63.62
MOTA	2654	CG	ASN	A1104		42.646	51.154	38.272	1.00 63.62
ATOM	2655	OD1	ASN	A1104		41.934	51.137	37.275	1.00 63.62
MOTA	2656	ND2	ASN	A1104		42.224	50.788	39.469	1.00 63.62
ATOM	2660	N	THR	A1105		43.519	50.305	35.135	1.00 45.33
ATOM	2661	CA	THR	A1105		42.978	50.501	33.817	1.00 45.33
ATOM	2662	C	THR	A1105		41.629	49.788	33.751	1.00 45.33
ATOM	2663	0		A1105		40.980	49.726	32.734	1.00 45.33
ATOM	2664	СВ		A1105		43.987	49.959	32.817	1.00 46.03
ATOM	2665	OG1		A1105		44.604	48.759	33.328	1.00 46.03
ATOM	2666	CG2		A1105		45.083	50.972	32.633	1.00 46.03
ATOM	2669	N		A1105		41.199	49.243	34.869	1.00 15.59
ATOM	2670	CA		A1106		39.900	48.589	34.956	1.00 15.59
				A1106		38.820	49.661	35.289	1.00 15.59
ATOM	2671	C				39.072	50.461	36.167	1.00 15.59
ATOM	2672	0		A1106					1.00 13.39
ATOM	2673	CB		A1106		39.931	47.514	36.091	
MOTA	2674	OG1		A1106		39.776	46.205	35.525	1.00 59.09
ATOM	2675	CG2		A1106		38.827	47.743	37.083	1.00 59.09
ATOM	2678	N		A1107		37.641	49.683	34.662	1.00 27.67
MOTA	2679	CA	LEU	Al107		36.613	50.729	35.028	1.00 27.67
ATOM	2680	C	LEU	A1107		35.966	50.401	36.392	1.00 27.67
ATOM	2681	0	LEU	A1107		34.939	49.735	36.477	1.00 27.67
MOTA	2682	CB	LEU	A1107	•	35.491	50.874	33.967	1.00 39.85
ATOM	2683	CG	LEU	A1107		35.834	50.768	32.492	1.00 39.85
ATOM	2684	CD1	LEU	A1107		34.611	50.486	31.731	1.00 39.85
ATOM	2685	CD2	LEU	A1107		36.500	51.981	31.985	1.00 39.85
ATOM	2687	N		A1108		36.576	50.816	37.480	1.00 99.39
ATOM	2688	CA		A1108		35.969	50.482	38.748	1.00 99.39
ATOM	2689	C		A1108		34.685	51.305	38.878	1:00 99.39
ATOM	2690	0		A1108		33.900	51.097	39.806	1.00 99.39
	2691	CB		A1108		36.973	50.749	39.872	1.00100.00
MOTA				A1108		38.383	50.249	39.513	1.00100.00
ATOM	2692	CG				39.286	51.419	39.214	1.00100.00
ATOM	2693	CD1		A1108				40.644	1.00100.00
MOTA	2694	CD2		A1108		38.945	49.421		1.00100.00
MOTA	2696	N		A1109		34.486	52.198	37.899	
ATOM	2697	CA		A1109		33.341	53.116	37.779	1.00100.00
MOTA	2698	C		A1109		33.875	54.536	37.598	1.00100.00
ATOM	2699	0		A1109		34.957	54.846	38.095	1.00100.00
MOTA	2700	CB		A1109		32.454	53.065	39.001	1.00 76.82
MOTA	2702	N	LYS	A1110		33.104	55.390	36.914	1.00100.00
MOTA	2703	CA	LYS	A1110		33.486	56.779	36.626	1.00100.00
ATOM	2704	C.	LYS	A1110		34.891	56.830	36.038	1.00100.00
MOTA	2705	oʻ,	LYS	Al110		35.858	56.673	36.763	1.00100.00
ATOM	2706	CB	LYS	A1110		33.430	57.631	37.900	1.00 99.15
ATOM	2707	CG	LYS	A1110		34.009	56.977	39.152	1.00 99.15
ATOM	2708	CD		A1110		34.718	57.970	40.052	1.00 99.15
ATOM	2709	CE		A1110		34.246	57.852	41.490	1.00 99.15
ATOM	2710	NZ		A1110	•	33.479	59.054	41.919	1.00 99.15
ATOM	2715	N		Al111		35.030	57.055	34.737	1.00100.00
ATOM	2716	CA		A1111		36.373	57.068	34.186	1.00100.00
		CA				36.824	58.244	33.333	1.00100.00
ATOM	2717			Allll		36.116	58.763	32.487	1.00100.00
ATOM	2718	O CF		A1111	•	36.685		33.449	1.00 61.16
ATOM	2719	CB		A1111			55.747		1.00 61.16
ATOM	2720	CG		A1111		38.144	55.601	33.081	1.00 61.16
ATOM	2721			A1111		39.101	55.397	34.055	1.00 61.16
ATOM	2722			A1111		38.575	55.820	31.785	
MOTA	2723	CEl	PHE	A1111		40.448	55.431	33.736	1.00 61.16

								22 400	1.00 6	7 76
ATOM	2724	CE2	PHE	A111	1	39.917	55.853	31.485		
	2725	CZ	PHE	A111	1	40.845	55.664	32.451	1.00 6	
•	2727		THR	A111	2	38.080	58.579	33.586	1.00	
	2728	CA	THR	A111	2	38.875	59.664	33.030	1.00	
ATOM	2729			A111		39.433	59.610	31.628	1.00 5	
	2730			A111		38.693	59.607	30.694	1.00	
MOTA	2731	CB		A111		40.029	59.942	34.007	1.0010	
ATOM		OG1		A111		41.181	59.195	33.618	1.001	
ATOM	2732	CG2		Alli		39.637	59.498	35.430	1.001	
ATOM	2733			All1		40.750	59.639	31.504	1.00	
ATOM	2736	N				41.514	59.623	30.240	1.00	39.45
ATOM	2737	CA		A111		42.391	60.886	30.057	1.00	39.45
ATOM	2738	С		A111		42.658	61.611	30.980	1.00	
MOTA	2739	0		A111			59.461	29.000	1.00	
ATOM	2740	CB		A111		40.661		28.373	1.00	
ATOM	2741	CG		A111		40.682	58.097	27.193	1.00	
ATOM	2742	CDI		All		40.003	57.867		1.00	
ATOM	2743	CD2		A111		41.168	56.982	29.056	1.00	
ATOM	2744	CEl	TYR	A111	L3	39.776	56.585	26.720		
ATOM	2745	CE2	TYR	A11	L3	40.938	55.670	28.577	1.00	
MOTA	2746	CZ	TYR	A11:	L3	40.231	55.511	27.413	1.00	
MOTA	2747	OH	TYR	A11:	13	39.943	54.290	26.912	1.00	
	2750	N		A11:		42.852	61.153	28.847	1.001	
MOTA		CA		A11:		43.759	62.268	28.741	1.001	
ATOM	2751	CA		A11		44.080	62.762	27.312	1.001	
MOTA	2752			A11		44.093	63.971	27.052	1.001	00.00
MOTA	2753	0				45.049	61.857	29.500	1.00	34.32
MOTA	2754	CB		A11		44.317	61.803	26.410	1.00	68.47
ATOM	2756	N		A11		44.683	62.024	24.996		68.47
ATOM	2757	CA		A11			63.213	24.093		68.47
ATOM	2758	C		A11		44.399	63.303	23036		68.47
ATOM	2759	0		A11		45.017		24.487		.00.00
MOTA	2761	N		: All		43.470	64.038			.00.00
MOTA	2762	CA		A11		43.066	65.299	23.739		.00.00
ATOM	2763	С	ILF	E All	16	41.700	65.193	23.039		.00.00
ATOM	2764	0	ILE	E A11	16	41.049	64.140	23.163		87.32
ATOM	2765	CB	ILF	E A11	16	44.141	65.709	22.727		
ATOM	2766	OXT	ILE	E A11	16	41.280	66.178	22.385	1.00	87.32
TER	2,700									
	1 1	C1	TNI	I I	1	58.113	50.247	12.231	0.00	0.00
HETATM		N2		I I	1	57.524	51.444	12.202	0.00	0.00
HETATM		C3		HI	1	58.303	52.541	12.107	0.00	0.00
HETATM				ïΙ	1	59.686	52.462	12.036	0.00	0.00
HETATM		C4				60.234		12.080	0.00	0.00
HETATM		C5		HI	1	59.434		12.174	0.00	0.00
HETAT	*	N6		H I	1	57.877		12.079	0.00	0.00
HETATN		ИS		H I	1			11.988	0.00	0.00
HETATI	9 P	C9		H I	1	59.057		11.953	0.00	
HETAT	M 10	Cl		H I	1	60.219		11.871	_	
HETATI	M 12	C1:	3 IN	ΗI	1	61.633		_		_
HETATI	M 13	N1!	5 IN	H I	1	61.632		_		
HETAT		Cl	6 IN	H I	1	56.477				
HETAT				ΗI	1	56.258	_	13.391		
HETAT				ΗI	1	54.809				
HETAT				HI	1	54.371	56.477			
				HI	1	54.670				
HETAT		_		H I	1	56.121		10.897		
HETAT	· .			TH I	1	52.949		12.268		
HETAT				IH I	1	51.997		12.311		
HETAT						50.533				0.00
HETAT	'M 30) C3	3 II	IH I	1	. د د . ۰ د				

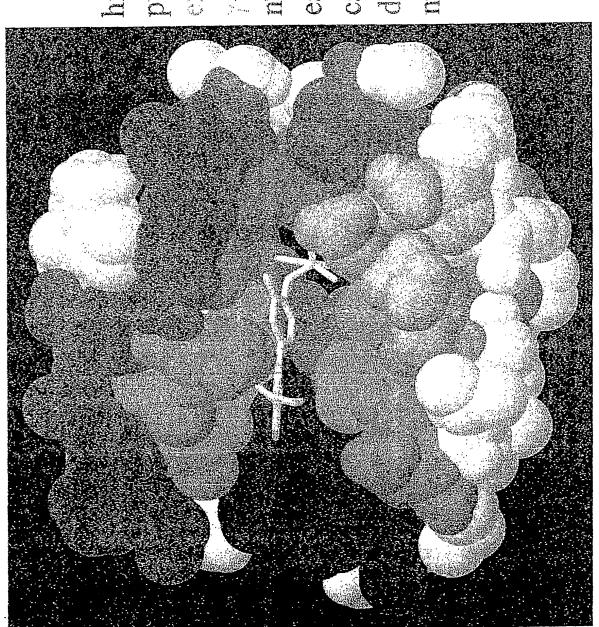
Kinase catalytic domain structure walkthrough - insulin receptor kinase





TG. 8

hinge
purine core
micleotide binding
catalytic lysine
distal hydrophobic



(19) World Intellectual Property Organization

International Bureau





(43) International Publication Date 4 October 2001 (04.10.2001)

PCT

(10) International Publication Number WO 01/72778 A3

(51) International Patent Classification7: C07K 14/71, G01N 33/68, A61P 35/00

(US). BELLAMACINA, Cornelia [US/US]; 2517 Grove Way #110, Castro Valley, CA 94564 (US).

- (21) International Application Number: PCT/US01/08853
- (22) International Filing Date: 20 March 2001 (20.03.2001)
- (25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/192,920

29 March 2000 (29.03.2000) US

- (71) Applicant (for all designated States except US): KNOLL GESELLSCHAFT MIT BESCHRAENKTER HAF-TUNG [DE/DE]; Knollstrasse 50, D-67061 Ludwigshafen (DE).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): BUMP, Nancy, J. [US/US]; 376 Andover Street, Lowell, MA 01852 (US). ARNOLD, Lee, D. [CA/US]; 216 Ruggles Street, Westborough, MA 01581 (US). DIXON, Richard, W. [US/US]; 19 Nottingham Drive, Jefferson, MA 10522 (US). HOEFFKEN, Hans, Wolfgang [DE/DE]; Dammstuecker Weg 37, 67069 Ludwigshafen (DE). ALLEN, Karen [US/US]; 139 Beaver Road, Weston, MA 02493

- (74) Agent: DECONTI, Giulio, A.; Lahive & Cockfield, LLP, 28 State Street, Boston, MA 02109 (US).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ. DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published:

with international search report

(88) Date of publication of the international search report: 2 May 2002

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.



(54) Title: METHOD OF IDENTIFYING INHIBITORS OF TIE-2

(57) Abstract: The present invention relates to polypeptides which comprise the ligand binding domain of Tie-2, crystalline forms of these polypeptides and the use of these crystalline forms to determine the three dimensional structure of the catalytic domain of Tie-2. The invention also relates to the use of the three dimensional structure of the Tie-2 catalytic domain both alone, or in complex with inhibitors, in methods of designing and/or identifying potential inhibitors of Tie-2 activity, for example, compounds which inhibit the binding of a native substrate to the Tie-2 catalytic domain.

INTERNATIONAL SEARCH REPORT

rnational Application No PCT/US 01/08853

A. CLASSII IPC 7	FICATION OF SUBJECT MATTER C07K14/71 G01N33/68 A61P35/	/00	
According to	International Patent Classification (IPC) or to both national classif	ication and IPC	
	SEARCHED		
Minimum do IPC 7	cumentation searched (classification system followed by classification ${\tt C07K} - {\tt G01N}$	ation symbols)	
	ion searched other than minimum documentation to the extent tha		
1	ata base consulted during the international search (name of data l ternal, WPI Data, PAJ, BIOSIS, MEDI		
C. DOCUMI	ENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the	relevant passages	Relevant to claim No.
Х	WO 98 07835 A (SCHLESSINGER JOSE CONGXIN (US); SUGEN INC (US); To 26 February 1998 (1998-02-26) claims; examples		1-3,87, 88
A	WO 98 41525 A (KNOLL AG ;CALDERI JOHN (GB); JOHNSTON DAVID NORMAI 24 September 1998 (1998-09-24) claims; examples		1,7
Furt	her documents are listed in the continuation of box C.	X Patent family members are listed	in annex.
A docum consic *E* earlier filing of *L* docum which citatio *O* docum other	ategories of cited documents: ent defining the general state of the art which is not dered to be of particular relevance document but published on or after the international date ent which may throw doubts on priority claim(s) or is cited to establish the publication date of another in or other special reason (as specified) lent referring to an oral disclosure, use, exhibition or means ent published prior to the international filing date but han the priority date claimed	 "T" later document published after the inte or priority date and not in conflict with cited to understand the principle or the invention "X" document of particular relevance; the cannot be considered novel or cannot involve an inventive step when the document of particular relevance; the cannot be considered to involve an indocument is combined with one or moments, such combination being obvious in the art. "&" document member of the same patent 	the application but early underlying the claimed invention be considered to cument is taken alone claimed invention ventive step when the one other such docuus to a person skilled
Date of the	actual completion of the international search	Date of mailing of the international sea	arch report
5	February 2002	15/02/2002	
Name and	mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (431-70) 340-3016	Authorized officer Fuhr, C	

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.2

Claims Nos.: 21-86

Present claims 21-75 relate to a method defined by reference to a desirable characteristic, namely a method for finding a compound which fits into a catalytic domain by use of the atomic coordinates of a crystal of the catalytic domain, and the compounds identified therewith.

The claims cover all methods and compounds having this characteristic, whereas the application provides no support within the meaning of Article 6 PCT and/or no disclosure within the meaning of Article 5 PCT for such methods and compounds. In the present case, the claims so lack support, and the application so lacks disclosure, that a meaningful search over the whole of the claimed scope is impossible. Independent of the above reasoning, the claims also lack clarity (Article 6 PCT). An attempt is made to define the method and compounds by reference to a result to be achieved. Again, this lack of clarity in the present case is such as to render a meaningful search over the whole of the claimed scope impossible. Consequently, the no search has been carried out for those claims.

Present claims 76-86 relate to a method defined by reference to a desirable characteristic or property, namely a method of treatment of a tie-2 related condition by administration of a compound found with above mentioned method.

The claims cover all methods having this characteristic or property, whereas the application provides nosupport within the meaning of Article 6 PCT and/or no disclosure within the meaning of Article 5 PCT for such methods. In the present case, the claims so lack support, and the application so lacks disclosure, that a meaningful search over the whole of the claimed scope is impossible. Independent of the above reasoning, the claims also lack clarity (Article 6 PCT). An attempt is made to define the method by reference to a result to be achieved. Again, this lack of clarity in the present case is such as to render a meaningful search over the whole of the claimed scope impossible. Consequently, no search has been carried out for those claims.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.

INTERNATIONAL SEARCH REPORT

Information on patent family members

rnational Application No

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
WO 9807835	A	26-02-1998	US	5942428	Α	24-08-1999
WG 200, 200			ΑU	733890	B2	31-05-2001
			ΑU	4160397	Α	06-03-1998
			ΕP	0931152	A2	28-07-1999
			JP	2001514484	T	11-09-2001
			WO	9807835	A 2	26-02-1998
WO 9841525	 А	24-09-1998	AU	6829398	Α	12-10-1998
			BG	103785	Α	30-06-2000
			BR	9808281	Α	16-05-2000
			CN	1259950	T	12-07-2000
			WO	9841525	A1	24-09-1998
			EP	0970084	A1	12-01-2000
			HU	0001507	A2	28-10-2000
			JP	2001516353	T	25-09-2001
			NO	994509	Α	17-09-1999
			PL	335685	A1	08-05-2000
			SK	125999	A3	16-05-2000
			TR	9902301	T2	21-12-1999
			US	6001839	Α	14-12-1999